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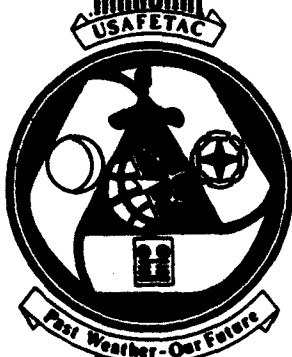
NORTH KOREA

A CLIMATOLOGICAL STUDY

by

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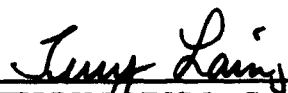
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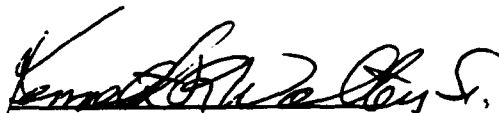
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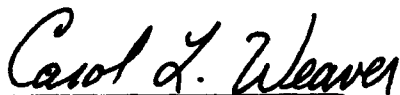


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PREFACE

This study was prepared by the United States Air Force Environmental Technical Applications Center's Readiness Support Branch (USAFETAC/DOJ) in response to a support assistance request from PACAF/DOW, Hickam AFB, Hawaii, under the provisions of AFI 15-118. Its publication completes USAFETAC Project 940405.

The project would not have been possible without the dedicated support of the many USAFETAC members we've listed below. If we've inadvertently omitted anyone, please accept our apologies. First, and always in such projects, our gratitude goes to the staff of the Air Weather Service Technical Library—notably Mr Gary Swanson, Mrs Susan Keller, Mrs Lisa Mefford, and Mrs Randa Simon. They outdid themselves in providing extremely comprehensive services under very tight time lines. The authors also wish to thank the many unknown DoD meteorologists who served in and around the Korean Peninsula since World War II. Their contributions, much of which has been distilled and included in the study, are recognized in the bibliography.

The authors would like to thank TSgt William Thomson and SSgt Drew Henderson for quickly providing the wind roses and data used for the figures. SSgt Henderson also provided copies of all operational climatic data summaries prepared for North Korean stations.

The authors wish to thank their DOJ colleagues (Mr John Louer, Capt Rich Arnold, Capt Michelle Edwards, MSgt Joy Harding, and TSgt Kenny Gibson) for handling other requests as they continued to work an ongoing regional climatology.

Finally, the authors wish to thank MSgt Joy Harding for setting up the necessary data summarization and extractions; without this background work, few of the illustrations would have been possible. The lead author owes a special debt of gratitude to his coauthor; without her graphics expertise, there could have been no short-notice illustrations.

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Chapter 1

INTRODUCTION

AREA OF INTEREST. This study describes the geography, climatology, and meteorology of North Korea; Figure 1-1 shows the country's broad-scale features. For the purposes of this study, the country can be divided into three areas of climatic similarity: *the western coastal plain, the mountains, and the eastern coastal plain.* Although the study generally addresses the climatology of the country as a whole, conditions unique to any of these three areas are addressed separately. There are many excellent maps of North Korea; DoD readers should consult the Defense Mapping Agency's Operational Navigational Charts (ONCs), Tactical Pilotage Charts (TPCs), or Joint Operational Graphics (JOGs) for more specific terrain details.

STUDY CONTENT. Chapter 2 offers a general discussion of the major meteorological features affecting North Korea. These include semipermanent climatic controls, synoptic features, and mesoscale and local features. Chapters 3 through 6, which discuss conditions peculiar to each of the four seasons, do not repeat descriptions of these phenomena. Therefore, meteorologists should absorb and understand Chapter 2 before proceeding. Chapter 3 discusses spring (April and May); Chapter 4, summer (June through September); Chapter 5, fall (October); and Chapter 6, winter (November through March). Each chapter discusses the weather in the following order:

- General weather
- Winds
- Visibility
- Sky Cover
- Precipitation
- Snow Cover (if appropriate)
- Thunderstorms
- Temperature (including wind-chill in the appropriate season)
- Additional hazards

CLIMATOLOGICAL NOTES. The narrow eastern coastal plain, backed by steep mountain ranges, is meteorologically important. The coastline and ranges in the extreme northeast are at approximate right angles to the prevailing northwesterly winds of winter. North Korea's proximity to the Asiatic High results in the earlier onset of lowering temperatures than would normally be expected. In the central mountains, conditions vary widely from the valley floor to the ridge top, as well as from one valley or ridge to the next. Conditions discussed throughout the study are normally *means*, but *extreme* conditions and their causes, especially those that may affect military operations, are discussed as well.

PLACE-NAME CONVENTIONS. The spelling of place names and geographical features are those used by the Defense Mapping Agency's Aerospace Center (DMAAC). Although neither the Republic of Korea (South Korea) or the Korean Peoples' Republic (North Korea) recognize the Demilitarized Zone (DMZ) at the 38th Parallel as an official border, it is used here as the de facto southern border of North Korea.

UNITS OF MEASURE. Distances and elevations of 10 kilometers and above are given in kilometers (km); those of less than 10 km, in meters. Cloud heights are in feet with a meter conversion. "Ceilings" are defined as skies with greater than 4/8 cloud cover, summed from the first layer upwards. Temperatures are in degrees Fahrenheit (° F), wind speeds in knots. Precipitation amounts are in millimeters (mm). Most synoptic chart times are in Greenwich Mean Time (GMT or Z). When synoptic charts are not provided, local (L) Korean time (Z+9 hours) is used. Cloud bases are above ground level (AGL), except over the central mountains where heights are above mean sea level (MSL). All cloud tops are in MSL. Cloud bases and tops are necessarily generalized over large areas.

GEOGRAPHY. As shown in Figure 1-1, North Korea extends about 716 km from southwest to northeast. It is about 360 km wide from east to west. It is bordered in the north by China and, in the extreme east, by Russia. The eastern coast is very narrow, but the western coast is much wider. Large river valleys extend westward from the plateau. These valleys are the major agricultural regions of North Korea. About 80% of North

Korea is mountain range and uplands. The Kaema Plateau, average elevation 1,000 meters, bisects the country. The Hamgyong Mountains rim the eastern edge of the plateau, rising to more than 2,500 meters; the highest point (Paektu Mountain, along the country's northern border) is 2,744 meters high. Mount Paektu is an extinct volcano with a crater lake. Hot springs are common in the mountains.

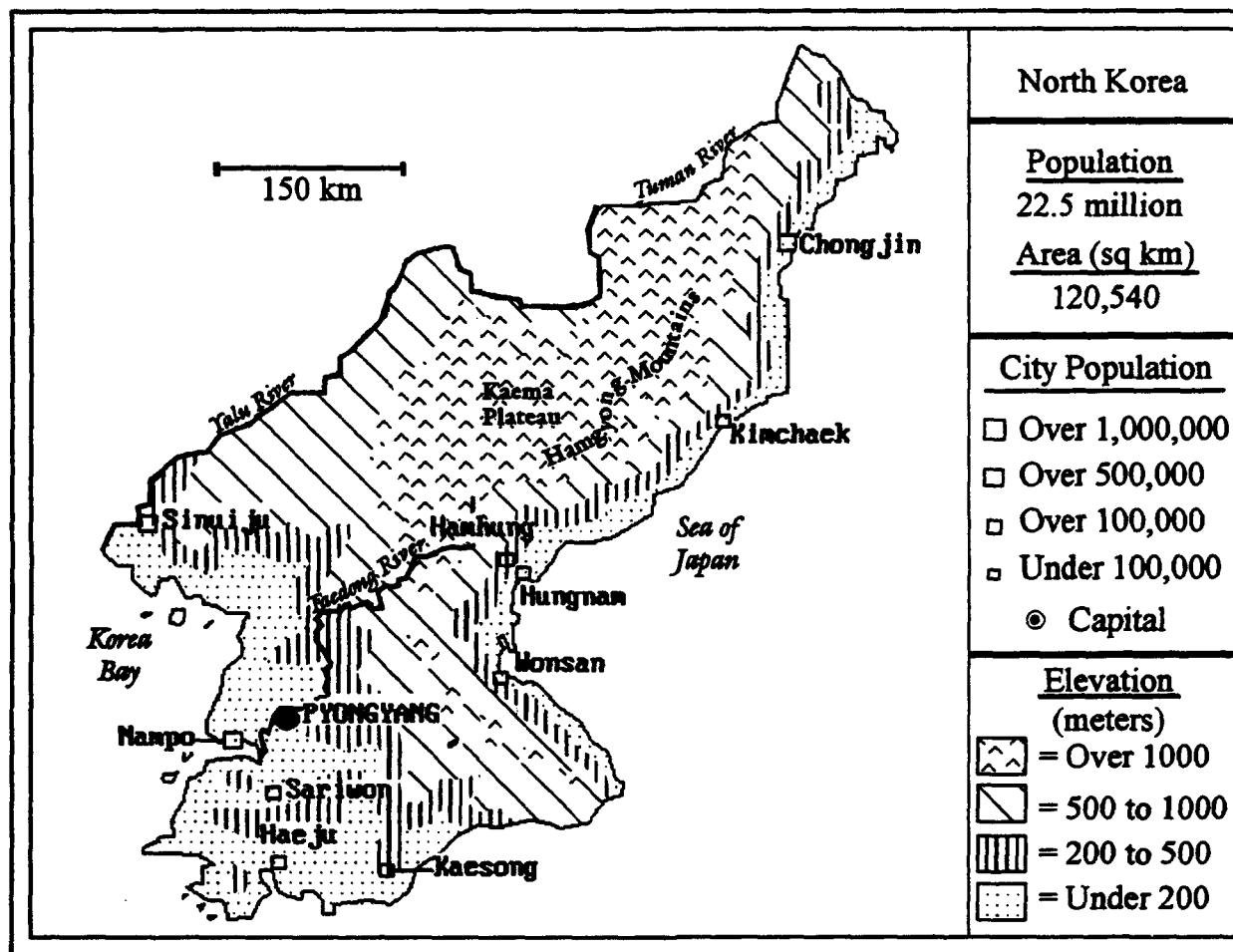


Figure 1-1. North Korea.

RIVERS AND DRAINAGE. Most rivers drain westward from the Kaema Plateau to the Korea Bay. The Yalu River, also called the "Amnok-Kang," flows westward along the northern border about 800 km. Only in its lower reaches is it navigable. It is frozen from November to March.

The Taedong River (formerly known as the Daido) is about 400 km long; it also flows westward from the Kaema Plateau to pass the capital city of Piongyang. The only major eastward-flowing river is the Tuman. It begins in the same mountain range as the Yalu and flows along the border for about 100 km.

VEGETATION. The Kaema Plateau is covered with coniferous forests, consisting of Siberian fir, spruce, pine, and Korean cedar. The valleys and coasts were once covered by temperate mixed forests, but these only survive on steep hillsides. Most of the lowlands are cultivated. Reeds, shrubs, and small trees line streams that are subject to flooding.

DATA SOURCES. Most of the information used in preparing this study came from two sources. The studies, atlases, books, and so on were

supplied by the Air Weather Service Technical Library, the only dedicated atmospheric sciences library in the Department of Defense and the largest such library in the United States. The climatological data came direct from the Air Weather Service Climatic Database.

RELATED REFERENCES. Staff meteorological or oceanographic officers and forecasters are urged to contact the AWS Technical Library for information on any of the reference documents listed in the bibliography.

Chapter 2

MAJOR METEOROLOGICAL FEATURES OF NORTH KOREA

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SEA-SURFACE CONDITIONS. Ocean temperatures and currents play a major role in the region's weather. Sea-surface temperatures are shown in Figure 2-1, while the currents are shown in Figure 2-2. Sea temperatures in the relatively shallow Yellow Sea have a wide annual range; those in the much deeper Sea of Japan have a much smaller seasonal variation.

The northeastward-flowing, warm *Kuroshio Current* is the primary current of the northern Pacific Ocean. After the Atlantic's Gulf Stream, it is the world's strongest current. Although always present, its strength and direction varies considerably from year to year.

The warm *Tsushima Current*, a branch of the Kuroshio, flows northeastward through the Tsushima Straits into the eastern Sea of Japan.

The cold *Liman Current* flows southwestward and then southward along the Russian and North Korean coasts during the winter. During the summer this current only reaches the northern end of Wonsan Bay before turning back out into the Sea of Japan and joining the Tsushima Current.

Yellow Sea currents reflect the prevailing northwesterly winds flowing off Manchuria during the winter. Summer currents degenerate into a series of cyclonic gyres reflecting the proximity of the Polar Front.

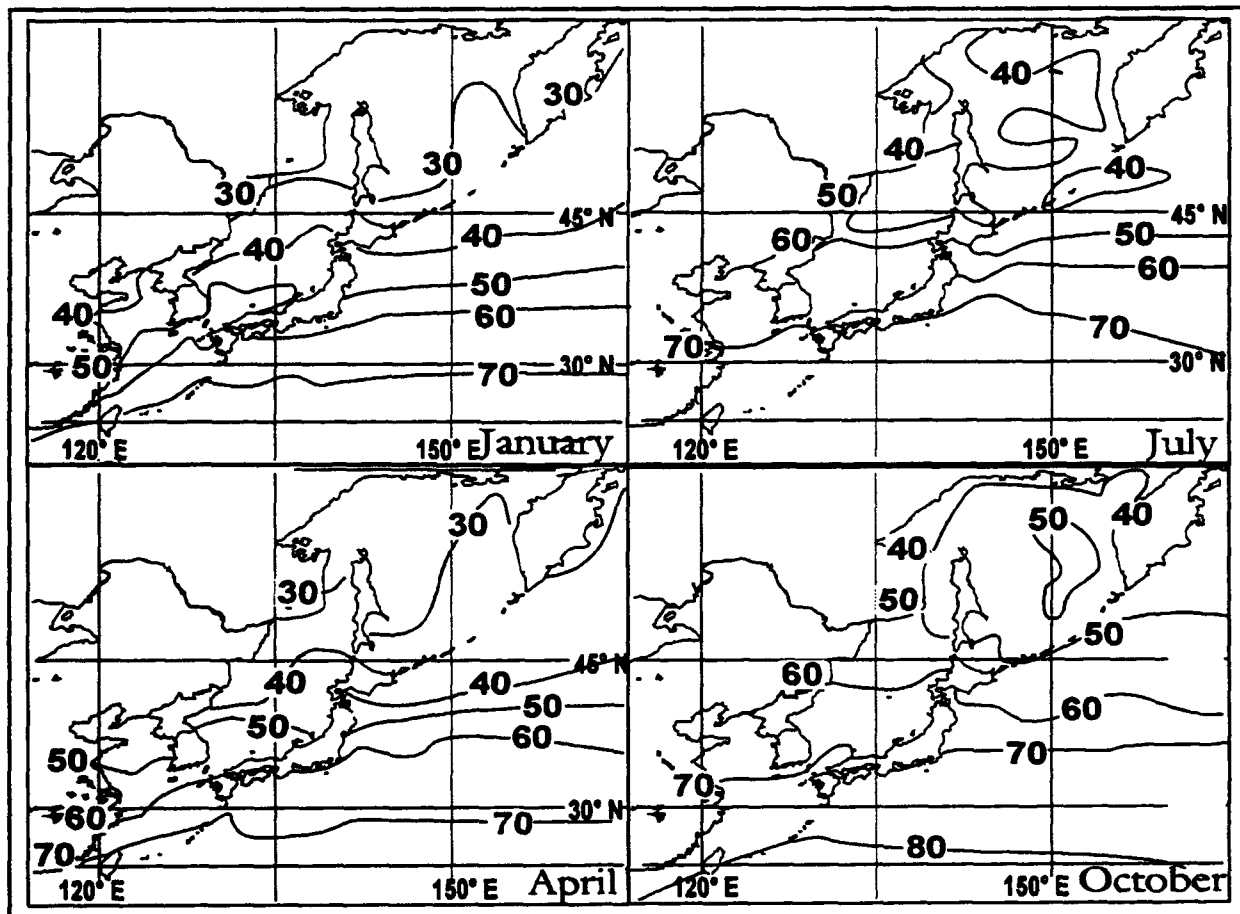


Figure 2-1. Mean Sea-Surface Temperatures.

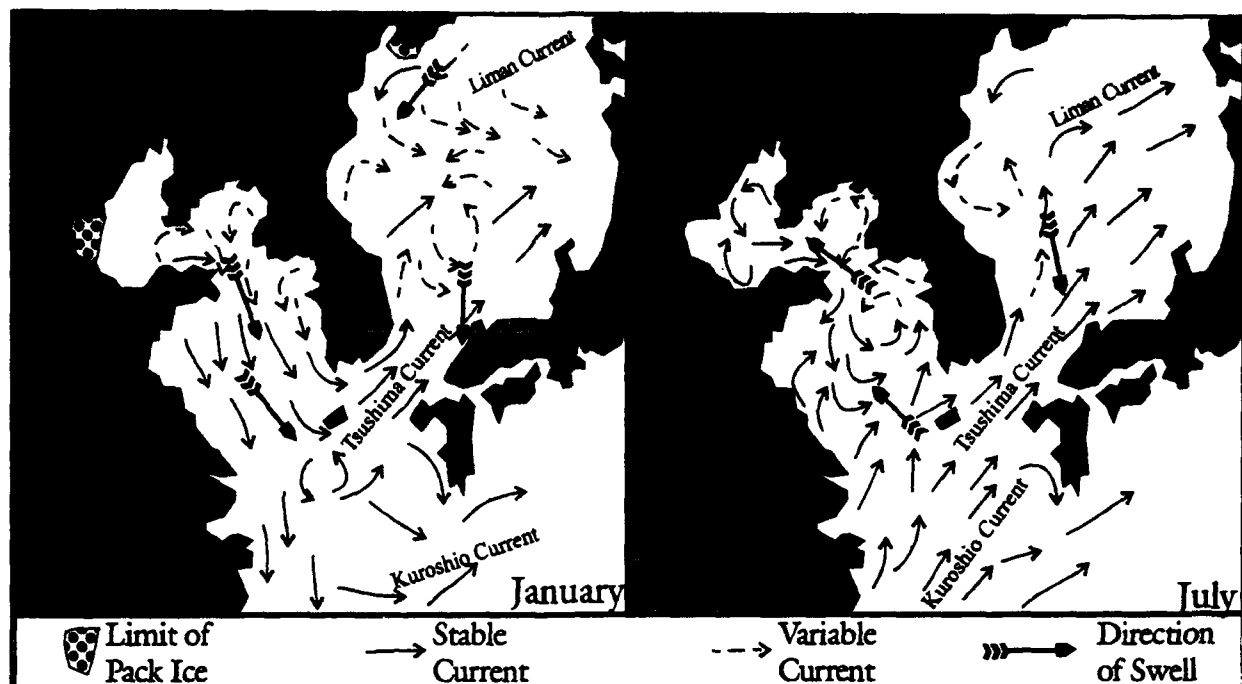


Figure 2-2. Sea-Surface Currents. Note the advection of warm water northeastward off the southern Japanese coast. Current speeds are less than 2 knots the year around.

Tides. The west coast tidal range is between 13 and 20 feet, with the greater values south of 40°; peak high tide heights are just under 21 feet. The east coast tidal range is only 1 to 3 feet; the peak

height is near 5 feet. Tides are highest at Inchon, where the range is from 22 to 26 feet and peaks are nearly 28 feet.

MARITIME PRESSURE FEATURES

North Pacific High. As shown in Figure 2-3, this subtropical high is located near 29° N, 138° W, in January with a mean pressure of 1021 mb. It moves northeastward to near 38° N, 148° W, in July, with a 1024-mb mean pressure. An associated ridge from this center extends into the east China Sea around 25° N in January; by July, the ridge moves northward into South Korea near 35° N. Its position is linked to the movement of the Near Equatorial Trough (NET) and to oscillations in convective activity in the western Pacific. During the winter, the North Pacific High over the western Pacific tends to oscillate between two flow patterns; one shallow, one deep. Each pattern lasts about 10 days, causing a periodicity in the low-level northwesterly flow over Korea. This is part of a phenomenon known as the "Low Frequency Oscillation."

With the shallow high, no 200-mb ridge is evident. Strong upper-level westerlies prevail to the south of the equator. At 700 mb, easterlies predominate south of the high. With this pattern, easterly waves tend to develop. Polar troughs are absent.

With the deep high, there is a strong ridge at 200 mb. At 700 mb, equatorial westerlies dominate south of 10° N. With this pattern, typhoons develop between the northeast trade winds and the westerlies. A polar trough is usually present over the East Asian coast. In the fall, a weak high-pressure area often forms near the Bonin Islands; as a result, the high ridges westward to extreme eastern China.

The Aleutian Low results from the averaging of frequent and deep cyclonic depressions that cross

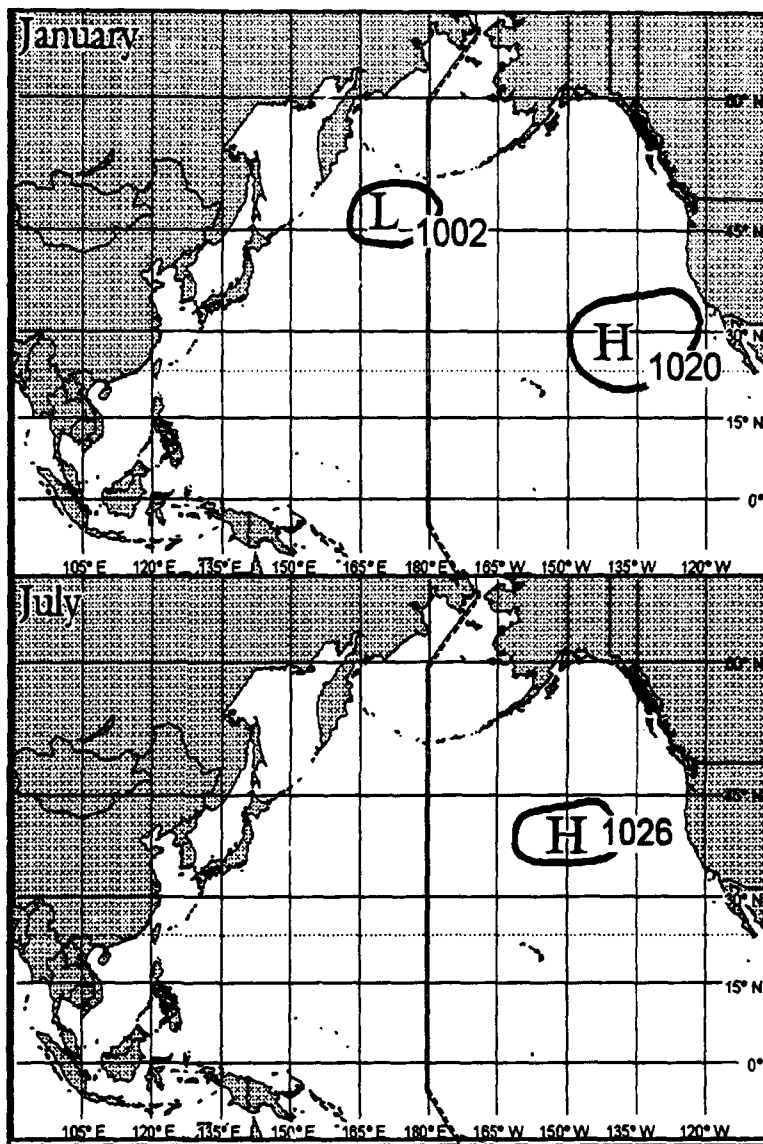


Figure 2-3. Major Maritime Pressure Features (after Trewartha, 1968). Top, Aleutian Low and North Pacific High; bottom, July North Pacific High.

the northeast Pacific. Strongest in the winter, its mean January position is 50° N, 156° W, with a central pressure of 1002 mb—see Figure 2-3. Changes in its position reflect changes in the primary storm track. When it builds farther west than usual, the storm track moves west and affects North Korea's weather. Note that this system is persistent and strong enough to appear on mean charts only in January (Figure 2-3).

CONTINENTAL PRESSURE FEATURES.

The Asiatic (or Siberian) High is a strong but shallow high-pressure cell that dominates much of the Asian continent from late September to late April. Vertically, it rarely reaches above 850 mb. The mean central pressure is strongest (1038 mb) in January (see Figure 2-4) when it is centered over western Mongolia. The Asiatic High is created and supported mainly by radiational cooling; when migratory Arctic air masses temporarily reinforce and intensify it, it can have multiple centers. The Asiatic High can exceed 1050 mb for up to 3 days; the highest recorded pressure is 1083 mb. Variations in this high contribute to an 8- to 10-day periodicity in the strength of the prevailing northwest winds over Korea. Its cold, dry air dominates Korea's winter weather, producing the almost exclusively north or northwest winds of the winter "monsoon." This flow extends to 10,000 feet (3.2 km).

The Asiatic Low (or Pakistani Heat Low) anchors the eastern end of a broad-scale, low-level thermal trough extending from northwestern India across southern Pakistan, Iran, Saudi Arabia, and into the Sahara from May to early October. The low, normally cloud-free, is strongest in July, when central pressure averages 994 mb. Its mean position (see Figure 2-4, July), is 35° N, 65° E. A weak trough forms off this low center into Mongolia and enhances the summer "monsoon."

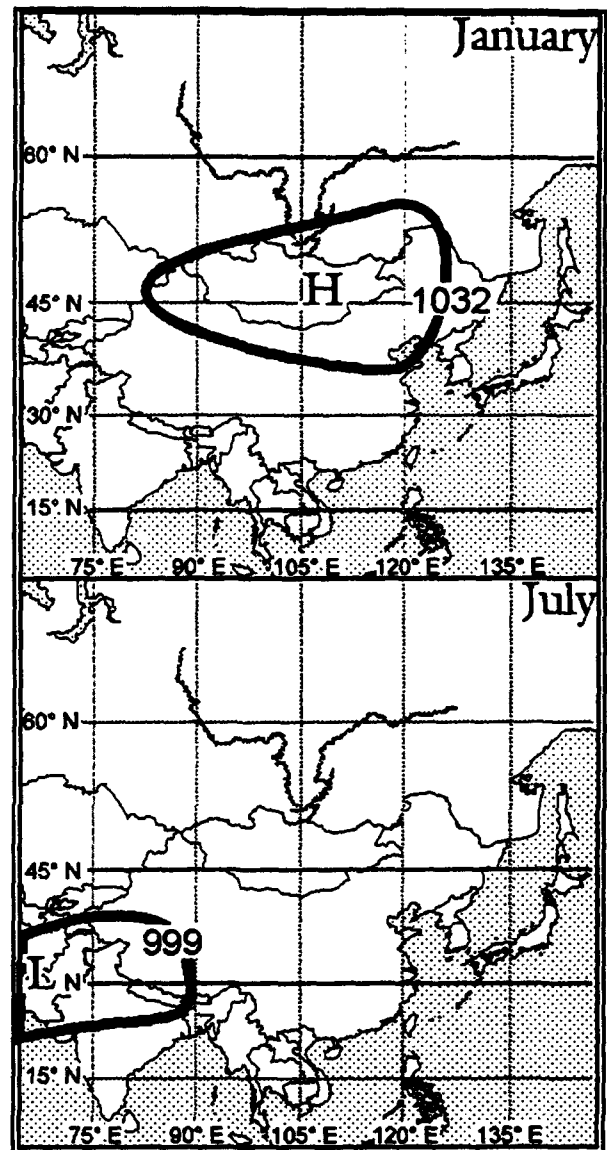


Figure 2-4. Major Continental Pressure Features. Top, Asiatic High; bottom, Asiatic Low.

JET STREAMS. Two jet streams affect this region: the Polar Jet (PJ) and the Subtropical Jet (STJ).

Polar Jet. In winter, the Tibetan Plateau splits the mid-latitude westerlies into two branches. The northern branch (the Polar Jet) varies widely between 45 and 70° N. During winter, it moves southward over East Asia to merge with the Subtropical Jet to create a broad band of very high speeds over eastern China and Japan. Winds at the Tateno upper-air station just east of Tokyo have been measured at over 240 knots. Core speeds over Korea often exceed 100 knots.

Subtropical Jet (STJ). Figure 2-5 shows the mean positions of the STJ; they range from 22° in January to 45° N in July. Mean height is 39,000 feet (12 km). Mean STJ speed is 65 kts in January and 45 knots in July. As Figure 2-5 shows, the STJ's winter position is just south of the Tibetan Plateau, the Yangtze Valley, and southern Japan. In summer, the STJ is north of the Tibetan Plateau.

The STJ provides steering, shear, and outflow in the upper levels. Rainfall is concentrated along the jet. Subsidence inhibits rainfall to the extreme south. The STJ signals more frequent tropical storm development in the region. Note that, except in high winter, there is a broad-scale mean trough over the Yellow Sea, Korea, and Manchuria.

The STJ rejoins the Polar Jet near southern Japan; the strength of the jet there is a good indicator of the strength and characteristics of the North Pacific High. This confluence zone sometimes extends southwestward through China and into northern Burma, where it enhances cyclogenesis in the South China Sea (Reiter, 1963).

Although the STJ shows less variability (only 2-3 degrees of latitude) in its daily position (Yeh and Ku, 1964) than the Polar Jet, *seasonal* variability is greater. STJ winds are normally west-southwesterly. By the end of May, the westerlies retreat to north of the Tibetan Plateau.

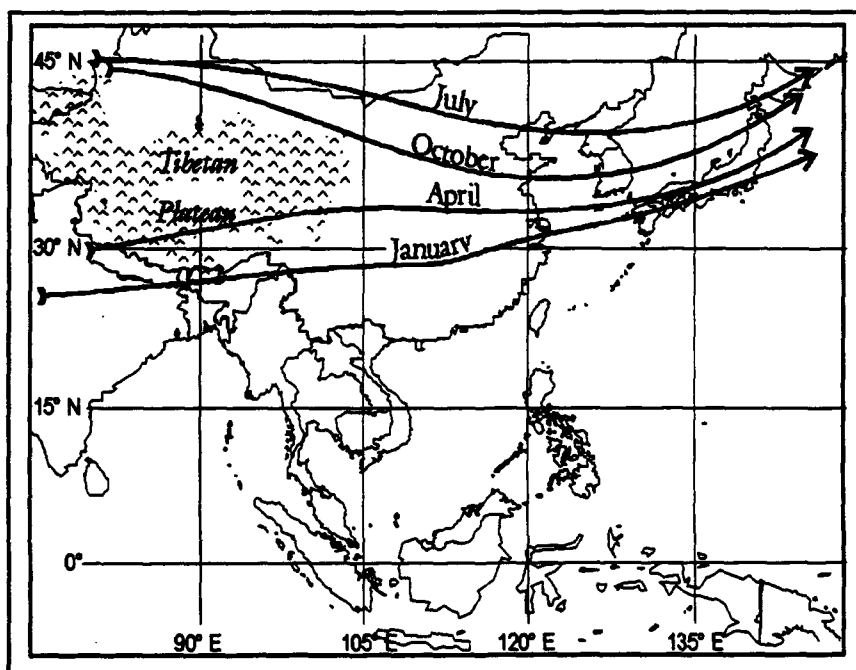


Figure 2-5. Mean January, April, July, and October Positions of the Subtropical Jet.

MID-LATITUDE DISTURBANCES.

Polar Front. Figure 2-6 shows the mean positions of the Polar Front in January and July.

Hatched areas indicate where the winds are most variable, indicating a stable polar frontal zone. Dotted areas are those *sometimes* affected by a frontal zone.

Note that, even in July, the mean polar front is either over or just south of North Korea. Anytime this occurs, much, if not all, of the country has overcast layered clouds, poor visibilities, fog, and heavy rain.

Figure 2-7 shows mean monthly summer Polar Frontal positions. Note that the Polar Front jumps into southeastern Manchuria during August. This period is the only time during summer when the extensive layered clouds and widespread rains characteristic of the Polar Front do not routinely affect North Korea.

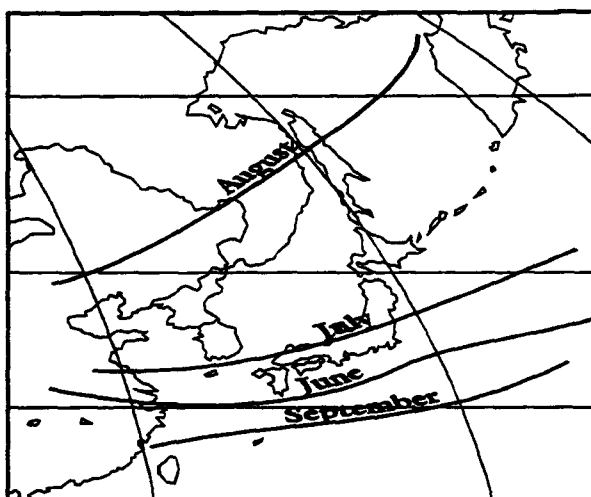


Figure 2-7. Summer Frontal Positions.

Storm Tracks. Those affecting North Korea originate in any of four areas—see Figure 2-8.

Baikal or Chita-Lun Chiong lows can often be traced back to northern Europe. They move southwest from the Lake Baikal region and recurve over northwestern North Korea before heading northeastward toward Hokkaido. They occur year-round, but mostly in the spring. With their extremely long continental trajectory, these

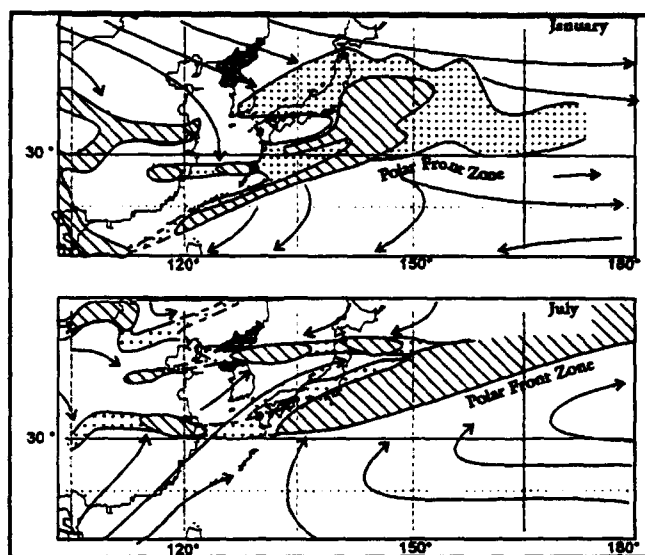


Figure 2-6. Polar Frontal Zones around North Korea. Arrows indicate steady wind direction.

lows cause strong dust storms. Very strong low-pressure systems pass through or over the Asiatic High.

Manchurian Lows form on the Chita-Lun-Chiong (Baikal) Low storm track near the Amur river basin about 640 miles (1,025 km) northwest of Vladivostok. These lows travel southwest, recurve near the western North Korean-Chinese border, then travel out to sea. About eight such lows a year affect the area, mostly from August to November. This track is rarely active during summer.

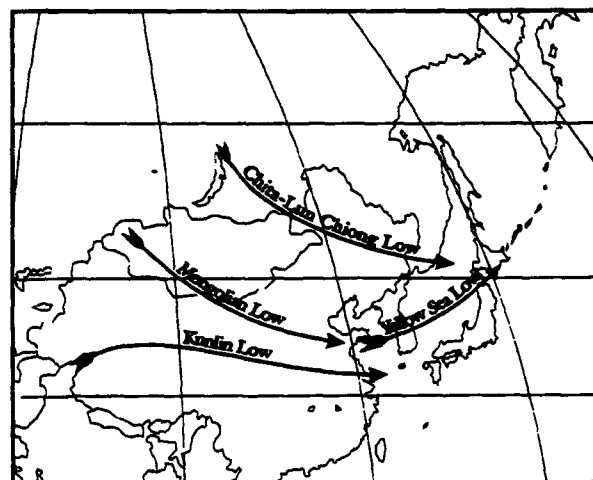


Figure 2-8. Storm Tracks Affecting North Korea.

Mongolian Lows, a year-round occurrence, follow an almost northwest to southeast path through northern China, recurve over the Yellow Sea to cross North Korea, and move from there to northern Japan. Low-level winds in the rear sections of the strongest of these systems during spring advect the "loess" (loose yellow soil) of northern China and Inner Mongolia eastward and southeastward across Manchuria and the Yellow Sea. This results in widespread duststorms that affect the Korean peninsula. Most such storms occur during late winter and spring.

Kunlin or Kun-Ling Lows commonly form in China's eastern Sichuan province, in the lee of the Himalaya Plateau (Sham and Chang, 1990). They create the "Kun-Ming" quasi-stationary front that separates the cloudy, polar air of the northern

Yunan Province from the drier subtropical air to the south. This track, although less persistent, is more active in spring (Chang, 1971). It is most active when a monsoon depression lies over India or a 500-mb trough extends over the Bay of Bengal.

Yellow Sea or Shanghai Lows usually form over eastern China or the Yellow Sea when a weak frontal wave on either the Mongolian or Kun-Lin track taps Yellow Sea moisture and warmth; they also form when the polar front lies over central and northern China during summer. This track is particularly active in the summer. The systems produced bring North Korea its worst flying weather; the heavy prefrontal rains make off-road trafficability conditions extremely poor.

TROPICAL DISTURBANCES.

Tropical storms are possible from late June through early September, with a maximum occurrence in August. As shown in Figure 2-9, storms travel from the south or southeast along the Korean shore before turning out to sea. Although South Korea averages slightly more than one storm a year, few actually cross North Korea, where the average is one every 4 to 5 years. The cloud shield, wind, and heavy rain from these storms, however, often affect extreme southern North Korea. The effects are most marked south of Pyongyang.

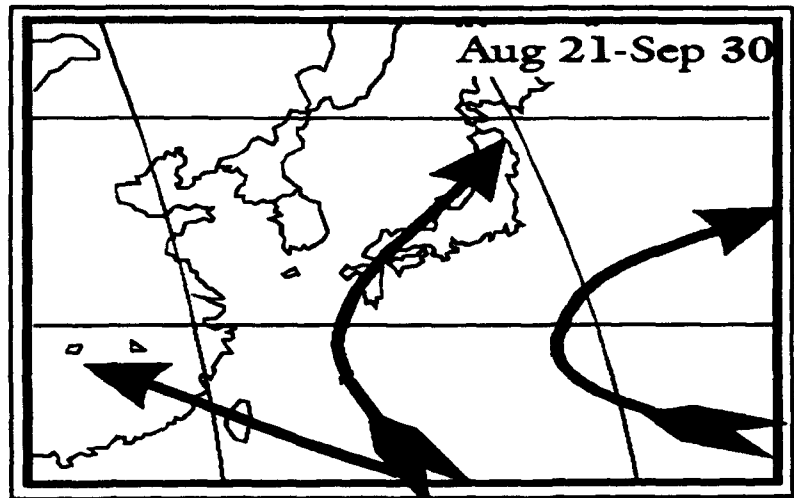


Figure 2-9. Mean Tropical Storm Tracks for Late August through September.

DIURNAL CIRCULATIONS.

Land/Sea Breezes. Differential surface heating generates these diurnal phenomena along most of the Korean coast, but they only overwhelm changes accompanying synoptic or mesoscale weather systems during spring and fall. Land- and sea-breeze effects are most pronounced along the western coastline; effects along the east coast are often masked by mountain/valley breezes that are reinforced by katabatic winds. Although surface insolation is strongest in the summer, the extensive layered clouds and rain associated with the Polar Front tends to damp out land/sea breezes. The marine boundary layer rarely extends above 915 meters (3,000 feet) AGL or 30 km inland unless modified by synoptic flow. There are two types of land/sea breezes: "common" and "frontal".

Common land/sea breezes affect both coastlines; the northern portion of the west coast may also have defined land/sea breezes into late June. Sea breezes are least likely to develop during winter, when the sustained northwesterly and northerly winds from the Asiatic High mask all diurnal circulations. Figure 2-10 illustrates the "common" land/sea breeze circulation under calm conditions with no topographic influences and a uniform coastline. Onshore (A) and offshore (B) flow intensifies in proportion to daily heat exchanges between land and water. Common land/sea breezes normally reverse at dawn and dusk.

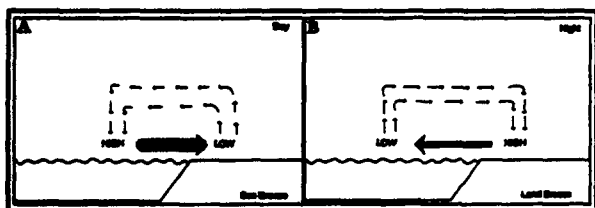


Figure 2-10. The "Common" Sea (A) and Land (B) Breeze. Thick arrows depict the surface flow.

Frontal land/sea breezes are often linked to low-level jets, shown as arrows in Figure 2-11. Onshore gradient flow enhances the sea breeze. Strong offshore gradient flow produces the frontal land breeze, enhancing it while weakening the sea breeze. The transition for wind reversal is delayed

by 1 to 4 hours as gradient flow prevents the sea breeze boundary layer, or "front," from moving ashore. The strongest sea breeze may be present at midnight. Such conditions routinely occur during the height of winter along the northeast coast.

High terrain near the coastline modifies the land/sea breeze in several ways. Orographic sea-

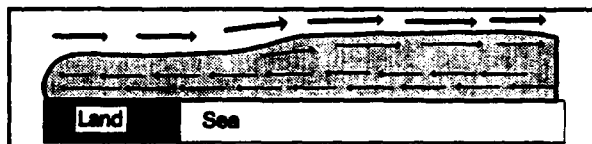


Figure 2-11. A Fully Formed "Frontal" Sea Breeze. Arrows depict wind flow; the shaded area is the marine air mass.

breeze lifting produces stratiform/cumuliform cloudiness and deflects surface winds, while the mesoscale mountain circulation accelerates the land breeze over water. High coastal topography produces steep nighttime temperature gradients. In August, convective activity is enhanced during the afternoon along the northeast coast due to terrain and the Southwest Monsoon flow.

Onshore gradient flow accelerates orographic lifting by day and produces localized convergence over open water during the early morning.

Coastal configuration influences the effects of the land and sea breeze. Coastlines perpendicular to landward synoptic flow maximize sea breeze penetration, while coastlines parallel to the flow minimize them. On the coast near Unggi in extreme northeast North Korea, for example, the conditions for sea-breeze penetrations up river valleys are very favorable.

Land/Lake Breezes. Several localized variations to a land/sea breeze circulation are caused by differential heating over large lakes. This circulation occurs in the absence of strong synoptic flow and has a vertical depth ranging from 200 to 500 meters (650 to 1,650 feet) AGL. Figure 2-12 shows a land/lake circulation and cloud pattern with no synoptic flow. Given favorable synoptic conditions, the large Yalu River

cloud pattern with no synoptic flow. Given favorable synoptic conditions, the large Yalu River reservoirs on the Chinese border develop such circulations.

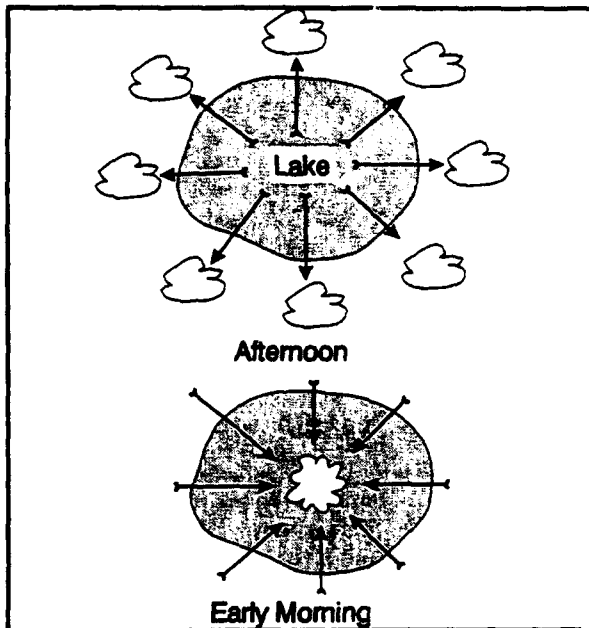


Figure 2-12. Idealized Land/Lake Breezes with Cloud Pattern. In late afternoons (top illustration), a cloud-free lake is surrounded by a ring of convection some 20 to 40 km inland. By early morning, flow reverses; localized convergence occurs over open water.

Mountain/Valley and Slope Winds develop under fair skies with light and variable synoptic flow. Mountain/valley winds, like land/sea breezes, dominate the weather in the absence of defined synoptic flow. Nocturnal mountain winds that flow toward the sea may cause lines of showers and even thunderstorms over the northwestern sea of Japan. The two types of terrain-induced winds are *valley winds* and *slope winds*; they are illustrated in Figure 2-13. Valley winds tend to be stronger than slope winds and can override their influence.

Valley Winds are produced in response to a pressure gradient between a mountain valley and a plain outside the valley. The valley heats and

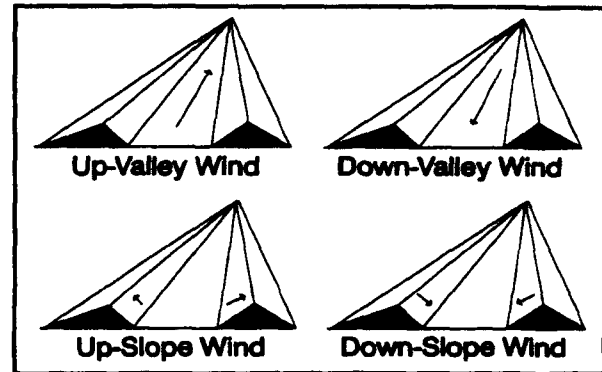


Figure 2-13 Mountain/Valley and Slope Winds. (from Whiteman, 1990)

cools faster than air over the plain. Daytime, up-valley winds are strongest, averaging 10-15 knots between 200 and 400 meters (650 and 1,300 feet) AGL. Nighttime down-valley winds average only 3-7 knots at the same level. Peak winds occur at the valley exit. Deep valleys develop more nocturnal cloud cover than shallow valleys because nocturnal airflow convergence is stronger. The mesoscale mountain-valley circulation, which has a maximum vertical extent of 2,000 meters (6,560 feet) AGL, is determined by valley depth and width, the strength of prevailing winds in the mid-troposphere (stronger winds producing a shallower circulation), and the breadth of microscale slope winds. Since it is not confined to a narrow valley, the return flow aloft is much weaker and broader.

Slope Winds develop along the surface boundary layer (0-150 meters/0-500 feet AGL) of mountains and large hills. Mean daytime up-slope wind speeds are 6-8 knots; mean nighttime down-slope wind speeds are 4-6 knots. Steep slopes can produce higher speeds, but these speeds are confined to elevations below 40 meters AGL. Down-slope winds are strongest during the season with the greatest cooling, while up-slope winds are strongest during the season of greatest heating. Up-slope winds are strongest on the slope facing the sun. Winds from a larger mountain can disrupt the winds of a smaller mountain. In some locations, cold air can be dammed up on a plateau or in a narrow valley. When enough air accumulates, it can spill over in an "air avalanche" of strong winds.

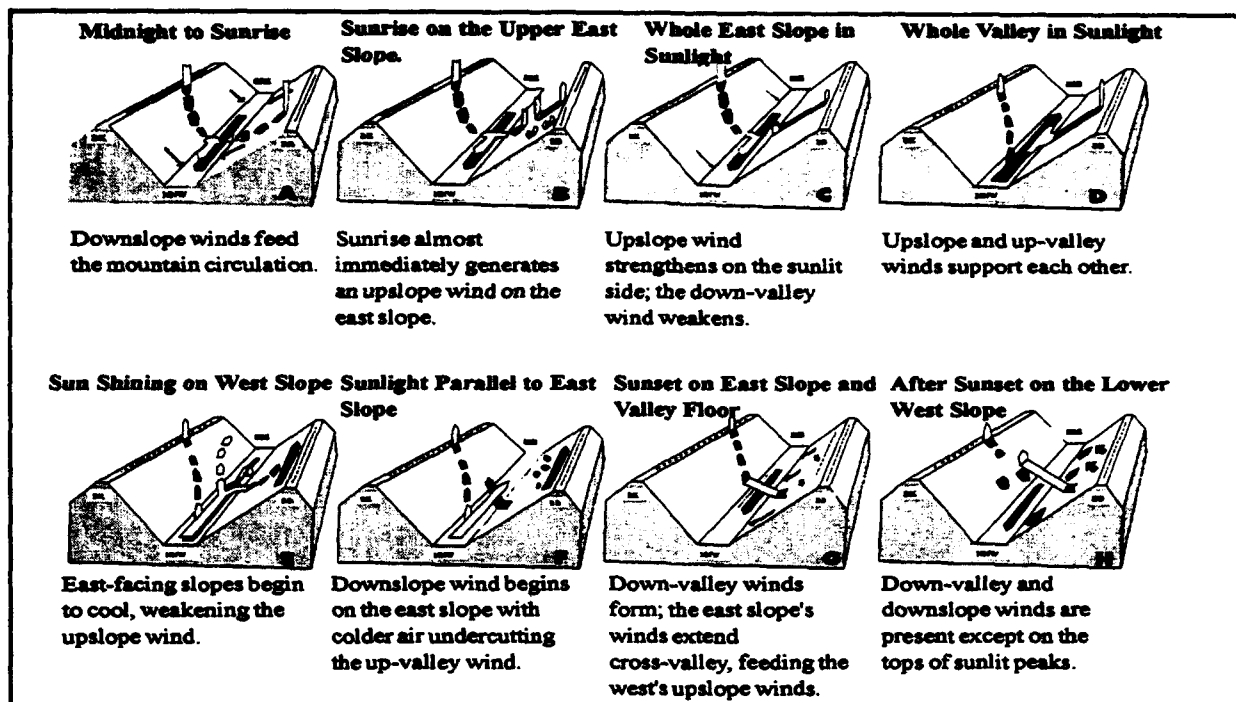


Figure 2-14. Diurnal Variation of Slope and Valley Winds. (from Barry, 1991).

Figure 2-14 shows the life cycle of a typical mountain-valley and slope wind circulation. Both valley and slope winds are shown in relation to two ridges (BK and BB) oriented NNW-SSE. The dark arrows show the flow near the ground; the light arrows show movement of the air above the ground.

Mountain inversions develop when cold air builds up along wide valley floors. Cold air descends from slopes above the valley at 8-12 knots, but

loses momentum when it spreads out over the valley floor. Wind speeds average only 2-4 knots by the time the down-slope flow from both slopes converge. The cold air replaces warm, moist valley air at the surface and produces a thin smoke and fog layer near the base of the inversion. First light initiates up-slope winds by warming the cold air trapped on the valley floor. Warming of the entire boundary layer begins near the 150-meter (500-foot) level AGL.

LOCAL WIND SYSTEMS

Mountain Waves develop when air at lower levels is forced up and over the windward side of a ridge. Criteria for mountain wave formation includes sustained winds of 15-25 knots, winds increasing with height, and flow oriented within 30 degrees of perpendicular to the ridge. Mountain waves are common downstream of the mountains backing the northeastern coastline during winter. However, such waves are relatively frequent over other mountain ranges during both summer and winter. Moderate to severe turbulence is common during such conditions.

Wavelength amplitude is dependent on wind speed and lapse rate above the ridge. Light winds follow the contour of the ridge with little displacement above and rapid damping beyond. Stronger winds displace air above the stable inversion layer; upward displacement of air can reach the tropopause. Downstream, the wave propagates for an average distance of 50 times the ridge height. Rotor clouds form when there is a core of strong wind moving over the ridge, but only if the elevation of the core does not exceed 1.5 times the ridge height. Rotor clouds produce the strongest turbulence. Clouds form only if the air is moist; in dry air, mountain waves result in clear air turbulence. Figure 2-15 shows a fully developed lee wave system.

Foehns are hot, dry winds produced when air is forced over mountains. They become hot and dry by descending the leeward slope adiabatically. Foehns form along the northeast coast during winter and downwind of central mountain ranges when conditions are favorable.

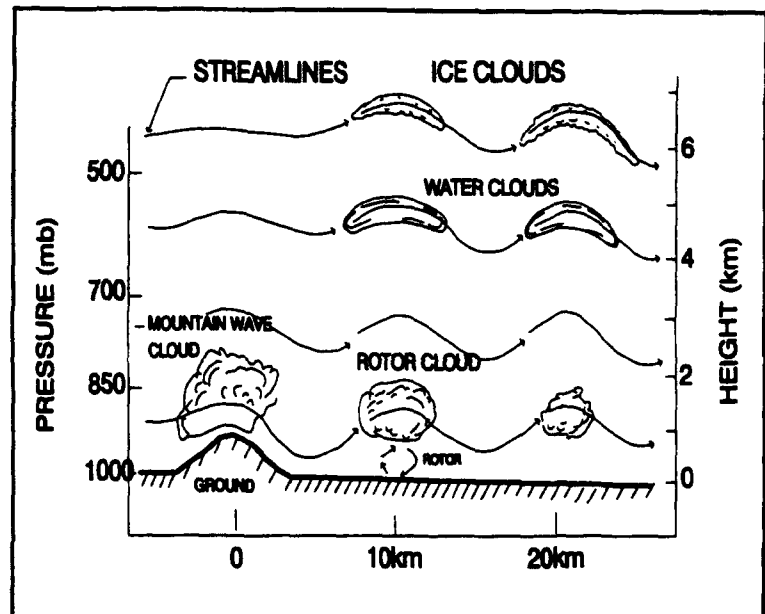


Figure 2-15 Fully Developed Lee Wave System (after Wallace and Hobbs, 1977).

Boras primarily occur over the northeastern coast in winter. When extremely cold air spills eastward through the Hamgheung Mountains, it reaches the sea coast still colder than the air it displaces. There is extreme turbulence within 3,000 to 5,000 feet of the mountains over the crests and on the lee (coast) side.

Gap, "Jet-Effect," or Venturi Winds occur on the downwind sides of mountain passes or river valleys under strong gradient conditions. These winds are almost always "supergradient," with speeds as much as 35 to 45 knots higher than would otherwise be expected. The most common location is along the northeast coast in winter.

Chapter 3

SPRING (April and May)

This chapter describes North Korea's weather during spring (April and May). After describing general spring weather conditions, specific information is provided on the standard weather elements listed below.

Winds	3-2
Visibility	3-3
Sky Cover	3-4
Precipitation	3-4
Thunderstorms	3-4
Temperature	3-4
Additional Hazards	3-5

GENERAL WEATHER-SPRING

As winter ends and the Asiatic High decays, the storm track moves northward. Baikal or Chita-Lung Chiong lows, Mongolian Lows, and Kunlin or Kun-Ling Lows affect the country. Temperatures increase. Typhoons are not observed during spring.

WINDS.

Surface Winds. The variable winds (Figure 3-1), reflect the weak and indefinite spring flow. The percentage of southerly winds increases from winter, the result of the Asiatic High's weakening and the increasing frequency of frontal passages. The percentage of calms also increases from winter. Variations in wind direction and speed due to rugged terrain, evident in the high percentage of calms at Hyesan, are common. Diurnal variations, such as the land/sea breeze suggested by Chongjin's windrose, increase.

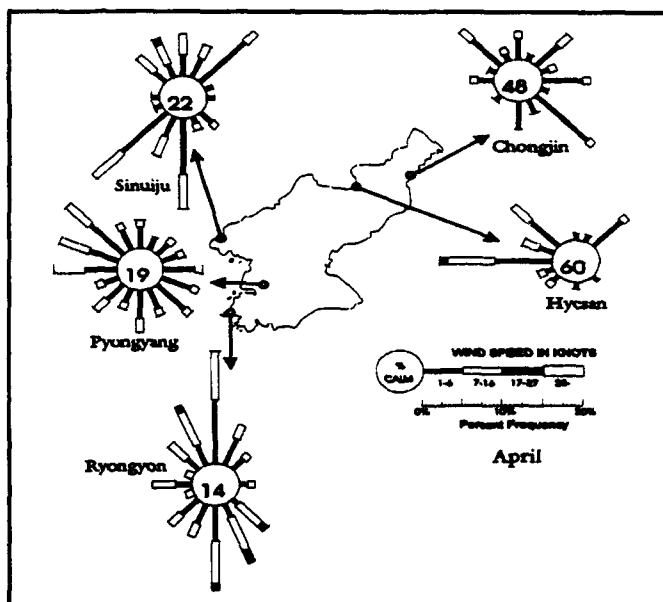
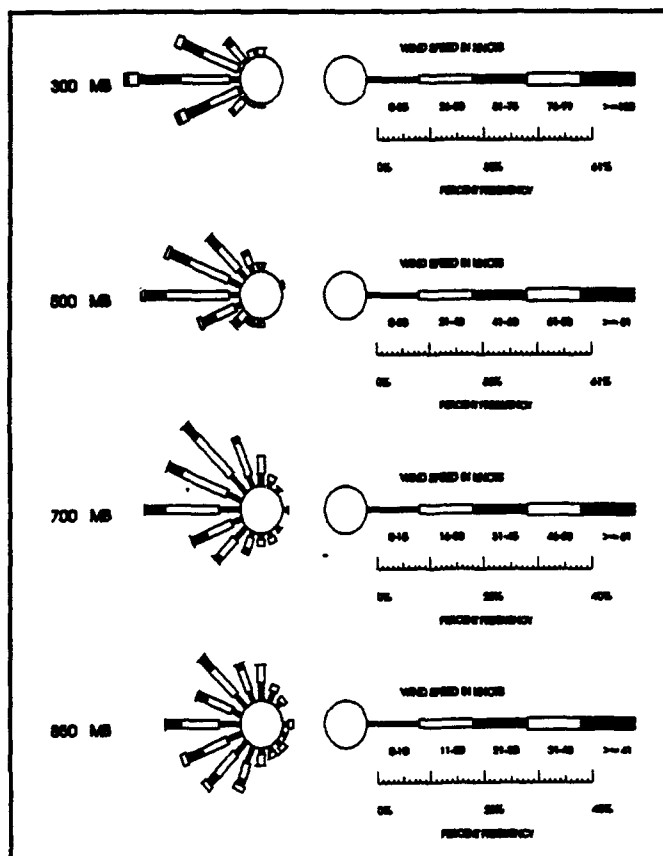


Figure 3-1. April Wind Roses.

Upper winds (Figure 3-2) are primarily westerly. Winds at lower levels are more variable due to the increasing frequency of fronts. At higher levels, strong winds are common due to the Subtropical and Polar Jets' proximity.



VISIBILITY. Visibilities below 1 mile (1,600 meters), shown in Figure 3-3, are primarily the result of calm winds and smoke from heating urban buildings. At many urban locations, visibility drops below 3 miles (4,800 meters) after midnight when winds are calm; it does not improve markedly until 1 to 2 hours after sunrise. Along the northeast coast, morning fog is the most common problem; it forms on about 20 days in April and up to 18 days in May. Visibility drops below 1 mile only 12% of the time. Mountain drainage winds may blow smoke and fog out to sea. Local ground fog forms inland under favorable wind conditions. In the absence of frontal systems and their associated precipitation or dust, late morning through early evening visibilities are well above 7 miles (11 km).

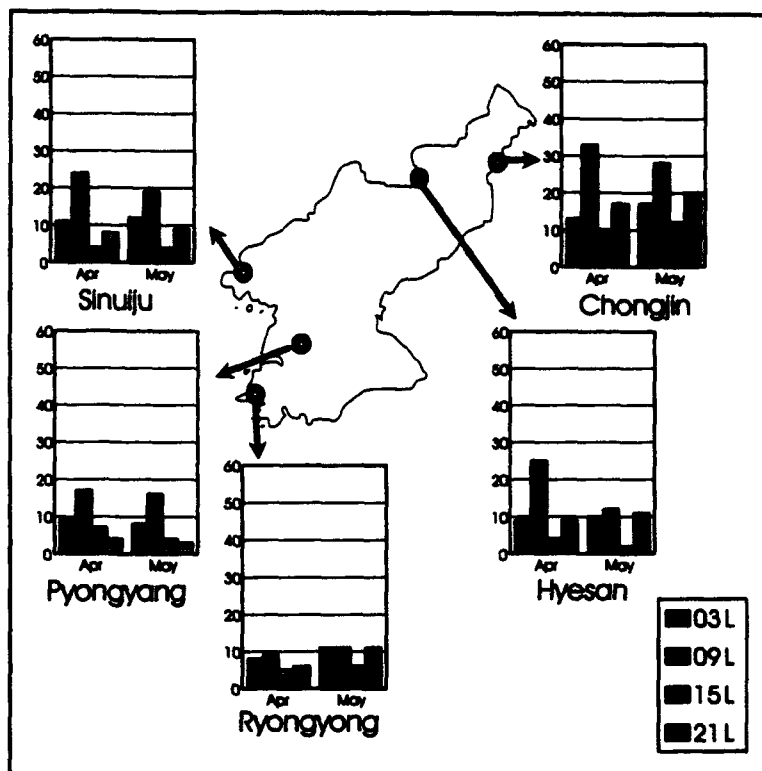


Figure 3-3. Spring Percent Frequencies of Visibilities Below

1,600 Meters. Visibility in frontal rain or rain showers drops below 5 miles. Visibilities in snow are below 1 mile. The heaviest snows over the higher Hamgyong Mountains reduce visibilities to near zero.

Yellow dust ("loess") is advected onto the peninsula from North China and Mongolia once or

twice a year. The dust is normally found below 6,600 feet MSL (2 km), but on rare occasions, it extends up to 10,000 feet MSL (3 km). Loess is advected by the strong northwesterly winds that follow passage of a well-developed low moving southeastward out of North China; visibilities may drop below 0.6 miles (1 km).

SKY COVER. Cloud cover increases steadily through spring due to increased available moisture, warmer temperatures, and increasing Yellow Sea and Shanghai Low cyclogenesis. Ceilings below 3,000 feet (see Figure 3-4) increase rapidly in early April; percent frequencies increase slowly through the rest of the season. Both coasts show peak occurrences shortly before and shortly after sunrise; inland stations have their greatest frequencies in mid-afternoon, reflecting the increasing afternoon cumulus. Mountains above 3,000 feet (900 meters) are briefly obscured. Layered middle and high clouds, along with extensive mountain obscurations, occur with and ahead of passing Yellow Sea lows.

PRECIPITATION. Although accumulations increase over those of winter, they remain below 13 mm in April and drop dramatically in May. Snow does not normally fall after early May except over the highest peaks; Figure 3-5 shows this well.

THUNDERSTORMS. Although still rare, thunderstorms normally occur only over the highest mountains when a strong cold front or Yellow Sea low passes. Over the coasts and the lowlands, they occur on less than 1 day a month, as shown in Figure 3-5. Tops range from 30,000 to 35,000 feet (9.1 to 10.7 km) MSL.

TEMPERATURES. April highs increase from near 60° F along the DMZ to near 50° F along the Russian and Manchurian borders. Lows range from slightly over 40° F to below freezing along the Yalu River. Temperatures over the higher mountains fall well below freezing; but by May, they range from near

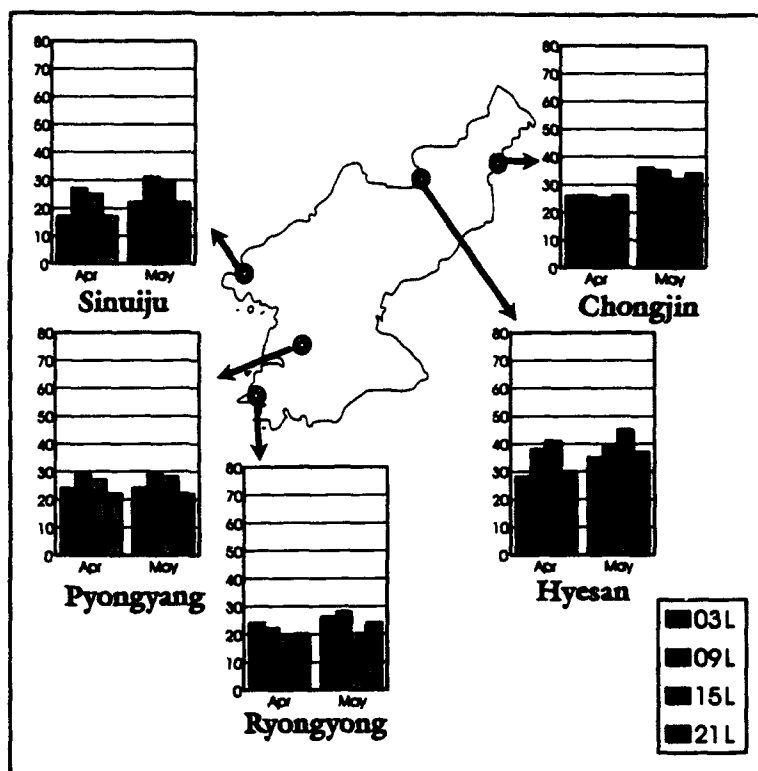


Figure 3-4. Spring Percent Frequencies of Ceilings Below 3,000 Feet.

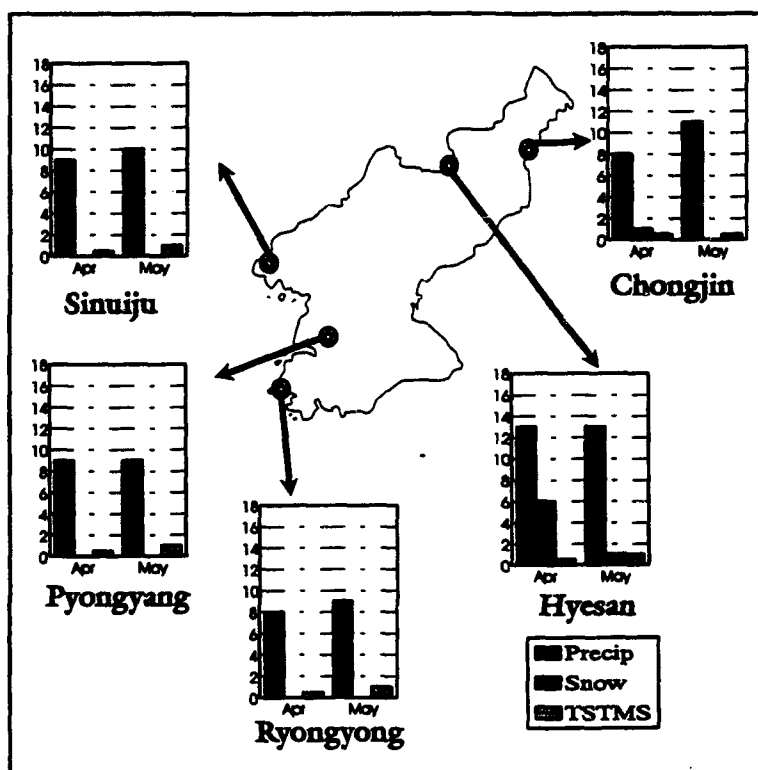


Figure 3-5. Spring Mean Monthly Precipitation, Snow, and Thunderstorm Days.

60° F along the Russian border to over 70° along the DMZ. Low temperatures rise into the low 40s (° F) along the northeast coast and into the low 50's along the DMZ. Recorded extremes range from 1° F in the extreme north along the Manchurian border to 100° F at Wonsan.

ADDITIONAL HAZARDS. Sea survival times increase off the northeast to about 30 minutes; off the northwest coast, to about 2 hours. Severe turbulence, severe mixed icing, strong wind shear, and strong surface winds all occur

with thunderstorms. Turbulence, especially moderate to severe mountain wave turbulence, remains a major aviation hazard. Off-road trafficability drops to fair as the ground thaws. Dense dust advected from North China can cause low visibilities and result in equipment wear problems similar to those experienced in the Pacific Northwestern United States immediately after the Mount St Helens eruption in May 1980. Measured dust loadings and particle size are as great as those of Mount St Helens.

Chapter 4

SUMMER (June through September)

This chapter describes North Korea's weather during summer (June through September). After describing general summer weather conditions, specific information is provided on the standard weather elements listed below.

Winds	4-2
Visibility	4-3
Sky Cover	4-4
Precipitation	4-4
Thunderstorms	4-5
Temperature	4-5
Additional Hazards	4-5

GENERAL WEATHER-SUMMER

General weather conditions deteriorate rapidly from south to north as the Polar Front moves across North Korea in July. In September, the Polar Front moves rapidly back southward. The worst conditions occur about 100 miles ahead of frontal systems and developing low-pressure centers along fronts. Contrary to popular belief, summer weather is worst for military operations because of poor flying weather and trafficability. Ceilings and visibilities are often below 1,000 feet and/or 3 miles (300 meters and/or 4,800 meters), with layered clouds through 30,000 feet (9.1 km). Heavy (often torrential) rain washes out roads, causes landslides, and turns unpaved areas into quagmires. At least once every 2 to 4 years, a typhoon crosses North Korea; typhoon rains and winds affect at least the southern half of the country almost every year.

WINDS.

Surface Winds. As shown in Figure 4-1, coastal low-level winds tend to be southerly; east coast low-level winds reflect channeling by the coastal mountains as well as flow behind Shanghai and Yellow Sea lows that have crossed into the Sea of Japan. Inland surface winds tend to have a southerly component. Night and early morning winds are normally less than 3 knots, and often calm. Land and sea breezes are common along coasts, as are mountain/valley winds in the interior and along the east coast. Except for thunderstorms and typhoons, speeds are usually less than 25 knots. Rare typhoon winds may exceed 90 knots; they are most likely on the exposed east coast after typhoons recurve into the Sea of Japan.

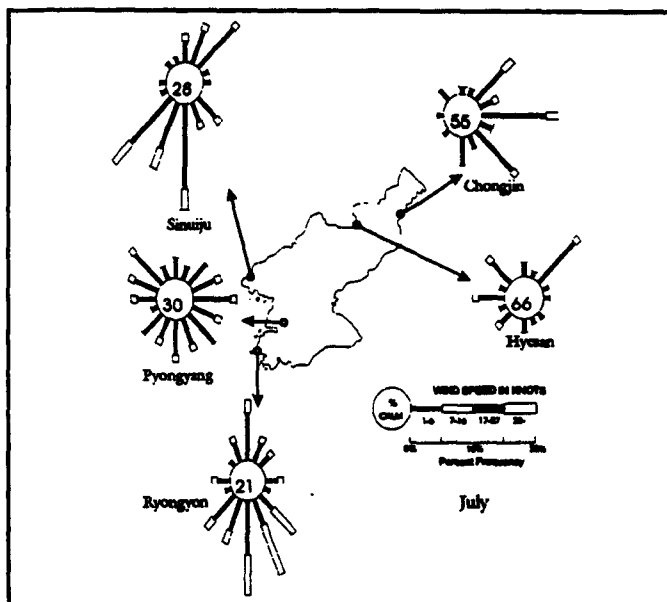


Figure 4-1. July Wind Roses.

Upper winds are primarily westerly and fairly strong (Figure 4-2), particularly ahead of deepening upper low-pressure troughs associated with Shanghai or Yellow Sea cyclogenesis. High-altitude wind speeds associated with the strongest of these systems may approach those of winter. Winds at lower levels are variable due to polar frontal waves.

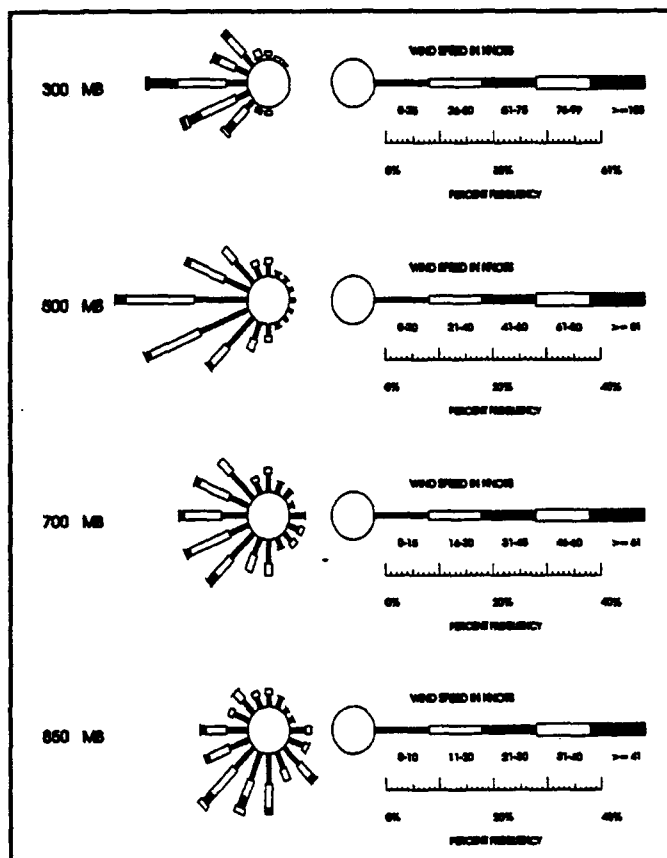


Figure 4-2. July Upper-Air Wind Roses for Pyongyang.

VISIBILITY. Fog is widespread along the northeastern coast, over the southern third of North Korea, and north of advancing frontal systems. Visibilities in the southern half of the country drop below 3 miles (4,800 meters) between 20 and 30 percent of the time, except during mid-afternoon; Figure 4-3 demonstrates this degradation well. By late July, these poor conditions have spread over the northern half of the country as well. At locations along coastlines, early and mid-morning visibilities are less than 1 mile (1,600 meters) more than 40% of the time. While both the Yellow Sea and the Sea of Japan are warming, the Liman Current along the northeast coast continues to keep sea-surface temperatures relatively cold. The prevailing winds (slightly onshore) ensure nocturnal fog and low clouds. West coast conditions, while not as bad as elsewhere, reflect the effects of relatively cool water and onshore flow. Inland stations see nocturnal ground fog consistently.

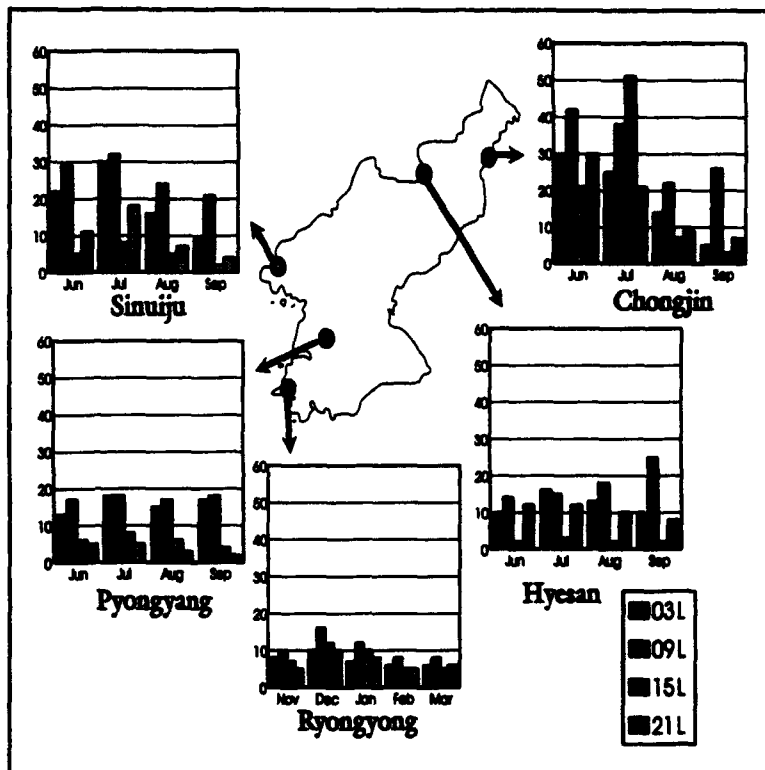


Figure 4-3. Summer Percent Frequencies of Visibilities Below 1,600 Meters.

SKY COVER. Frequencies of ceilings below 3,000 feet (900 meters) increase steadily through August from south to north (see Figure 4-4). Ceilings lower steadily from north to south in June, early July, and early September, reflecting the movement of the Polar Front. Only in August is there less DMZ cloud cover than during other summer months. Mountains are routinely obscured above 1,000 feet (300 meters) MSL within 100 miles of the polar front or developing low centers. In these areas, layered clouds extend to well above 30,000 feet MSL. Conditions within 50 miles of the front or low may drop well below 1,000 feet (300 meters) MSL. Otherwise, low stratus gives way to late morning cumulus with isolated afternoon thunderstorms; there is rapid clearing after sunset.

PRECIPITATION. Summer is the rainy season. Onset of heavy summer rains along the DMZ is normally between 25 June and 5 July. In July, rain falls on nearly 2 days out of 3. Occurrences decrease steadily in August and again in September (see Figure 4-5). The combination of warm and moist unstable air, onshore flow, and frequent frontal low passages result in some remarkable rainfalls. Between the DMZ and 40° N, the average is 200 to 300 mm a month; extremes have reached 625 mm. The peak recorded 24-hour rainfall exceeded 350 mm. Only along the eastern Manchurian border do amounts drop to 125 mm. Even the lowest monthly totals exceed 75 mm.

THUNDERSTORMS. As shown in Figure 4-5, thunderstorms are rare. Most North Korean stations average less than 3 thunderstorm days, but higher ridges and locations in the

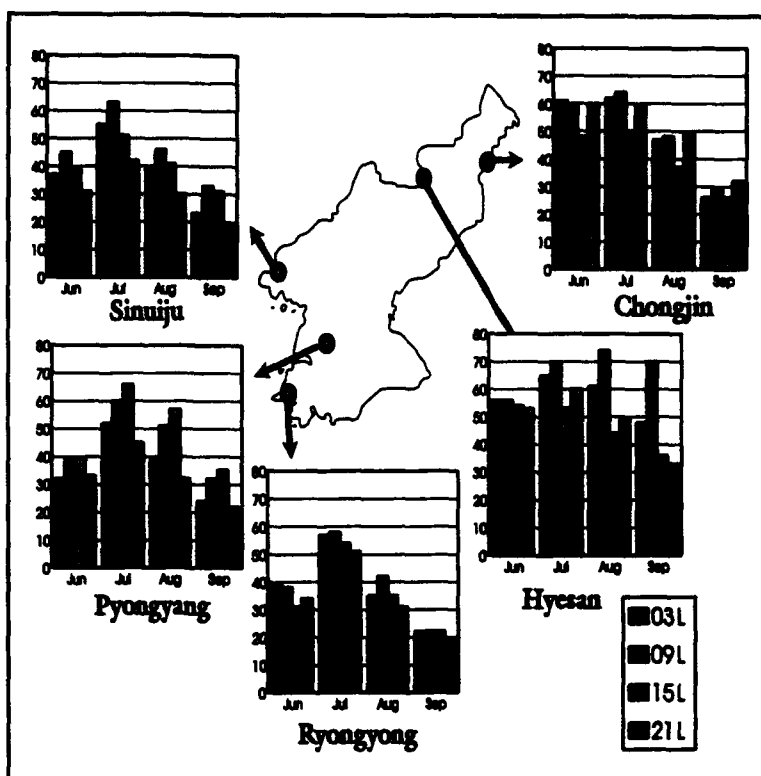


Figure 4-4. Summer Percent Frequencies of Ceilings Below 3,000 Feet.

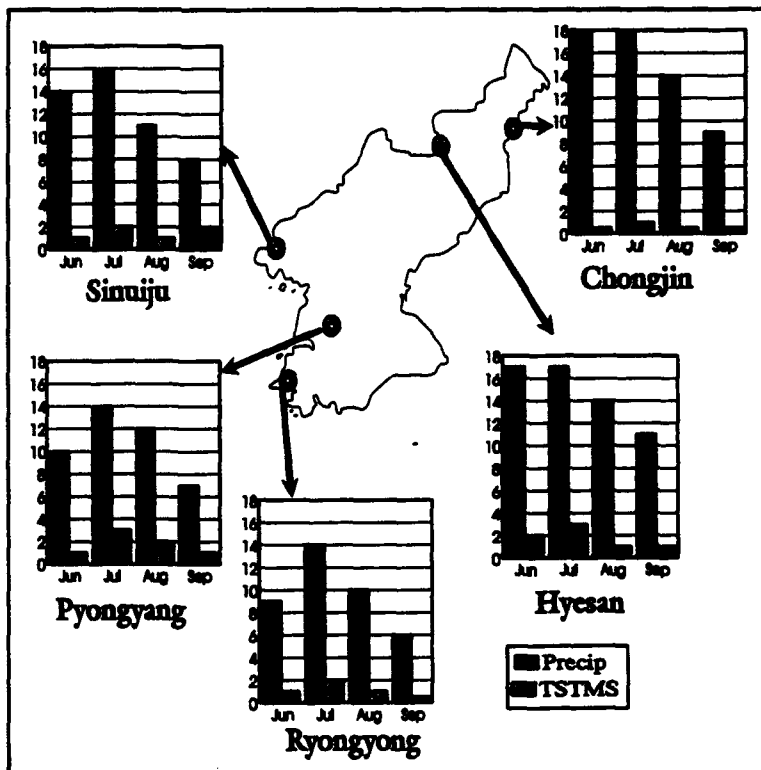


Figure 4-5. Summer Mean Monthly Precipitation and Thunderstorm Days.

Hamgyong Mountains have twice that many. Average tops are 35,000 to 40,000 feet (10.7 to 12.2 km) MSL. Severe thunderstorms are extremely rare; most tops are lower than 45,000 feet (13.7 km). Ceilings and visibilities may be below 500 feet and 1 mile (150 meters and 1,600 meters). Favored time is from 1200 to 1900L. There are the usual associated hazards.

TEMPERATURES. "Warm and muggy" characterizes North Korean summers, which are much like those in the United States' middle west. Coastal stations, especially those on the northeastern coast, have highs in the upper 70s (° F) to lower 80s. In other areas, highs reach the middle to upper 80s. Lows range from the lower 60s to lower 70s. Extreme highs have reached 100°; extreme lows of 32° have been recorded along the eastern Manchurian border. Temperatures cool rapidly north of 40° N in September. Mean first-frost dates over the central Hamgyong is early September. North of 41° N, all areas normally see at least one frost by the end of September.

ADDITIONAL HAZARDS. As might be expected, sea survival times are at their best during the summer. Those off the northeast coast approach 8 hours; off the northwest coast, survival time exceeds 12 hours. The southern half of the country is affected by typhoon-associated winds and rain as the one storm a year (on average) crosses South Korea into the Sea of Japan. About one storm every 3-4 years crosses southern North Korea. Rains from these storms (as well as from the polar front) result in very poor flying weather; mountains above 1,000 feet (300 meters) MSL are often obscured and visibilities may fall below 1 mile (1,600 meters).

Flash floods are common and rivers rise rapidly; the Yalu has reached 26 feet, while the Imjin (near the DMZ) has reached 44 feet. The Han (near Seoul, South Korea,) has reached 46 feet. Roads and bridges wash out; land slides are common. Trafficability off paved roads ranges from fair to poor as the ground becomes a sea of mud.

Chapter 5

FALL (October)

This chapter describes North Korea's weather during fall (October). After describing general fall weather conditions, specific information is provided on the standard weather elements listed below.

Winds	5-2
Visibility	5-3
Sky Cover	5-3
Precipitation	5-4
Thunderstorms	5-4
Temperature	5-4
Additional Hazards	5-4

GENERAL WEATHER-FALL

Conditions transition rapidly from summer's layered clouds and rain to winter's clear skies, low temperatures, and strong northerly flow. As the Asiatic High forms, the Polar Front moves rapidly southward. Skies clear, visibilities improve, ground dries out, and river levels fall. Only the rare typhoon temporarily interrupts the pattern.

WINDS.

Surface Winds. The rapidly building Asiatic High and southward movement of the Polar Front are reflected in the increasingly northerly surface wind component. Note, in Figure 5-1, that Sinuiju, in extreme northwest North Korea, has a small, but measurable, percentage of winds falling in the 17 to 27 knot category. Nights and early mornings are still often calm. Land/sea breezes are reinforced by mountain/valley breezes, especially along the northeast coast. Only well-defined synoptic systems disturb the relatively light winds of the Manchurian frontier.

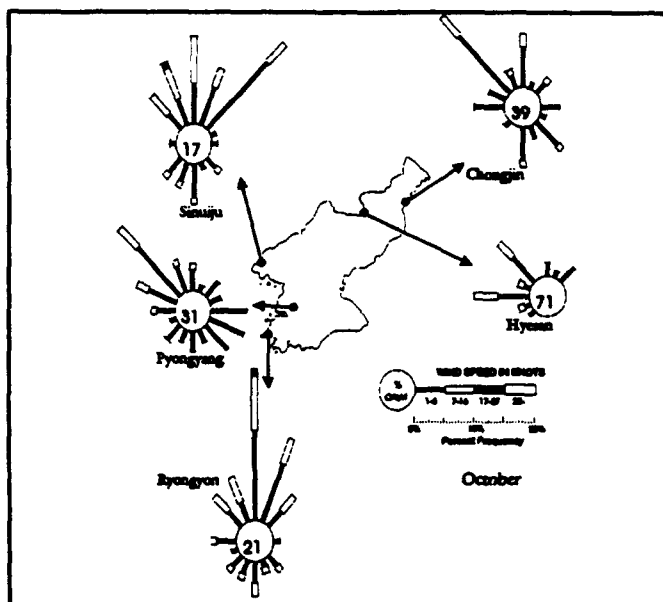


Figure 5-1. October Wind Roses.

Upper winds remain westerly; speeds slowly increase as the polar jet strengthens. The subtropical jet moves southward. Highest mean speeds, as reflected in Figure 5-2, approach 100 knots.

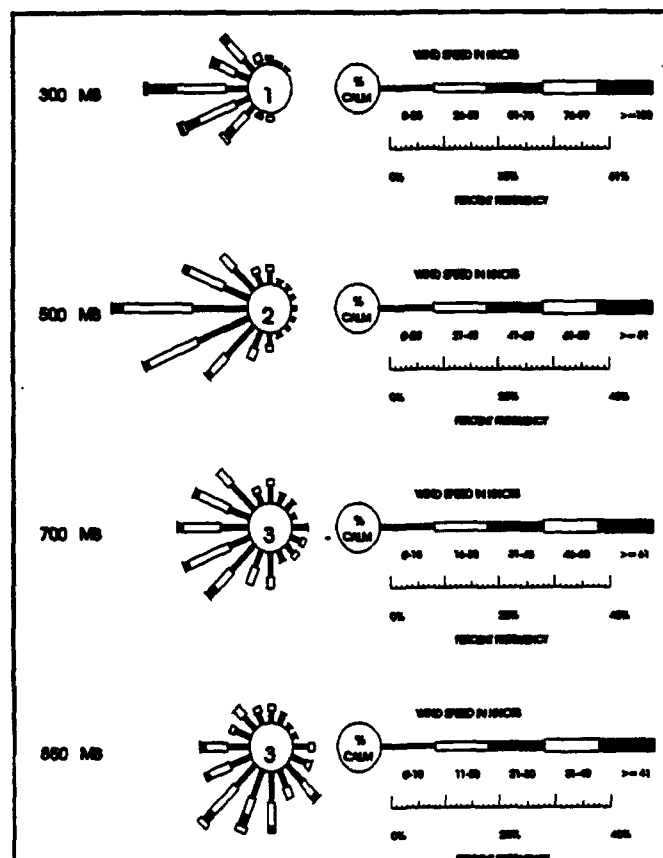


Figure 5-2. October Upper-Air Wind Roses for Pyongyang.

VISIBILITY. As temperatures fall, there is less available moisture; visibilities, as shown in Figure 5-3, increase dramatically. The predominant inland obstructions to vision are found around villages and cities. By the end of October, only urban smoke affects inland visibilities. Coastal fog, especially at night, is still possible. Afternoon visibilities are, in the absence of rain, uniformly good. Rain or rain showers associated with passing frontal systems reduces visibilities to 3 to 5 miles (4,800 meters to 8 km).

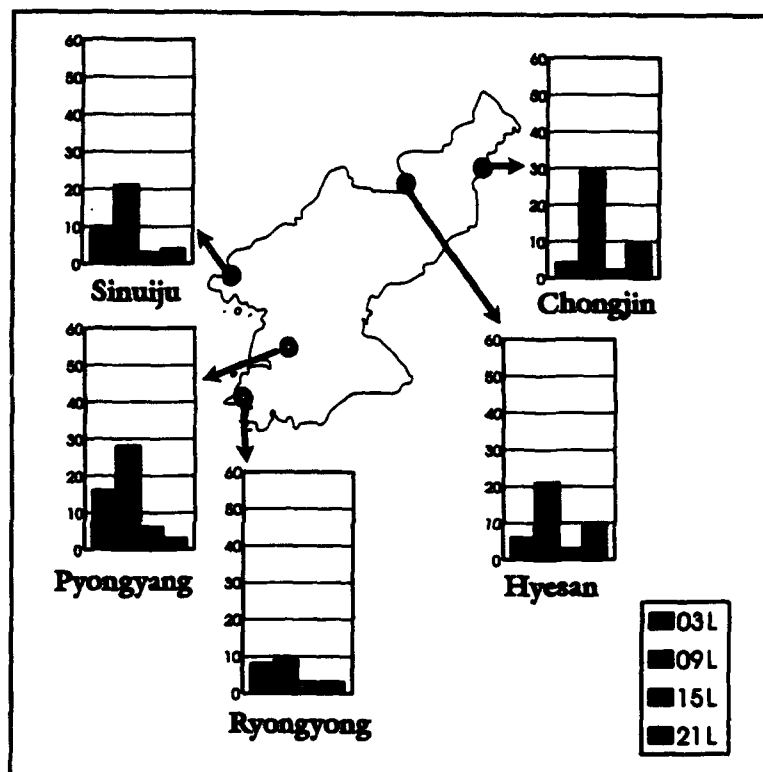


Figure 5-3. Fall Percent Frequencies of Visibilities Below 1,600 Meters.

SKY COVER. Ceilings below 3,000 feet (900 meters) decrease, as shown in Figure 5-4. Extensive layered clouds are found only with frontal systems and the rare typhoon. These systems can bring layered clouds from 1,500 to 30,000 feet (450 meters to 9.1 km) MSL south of 40° N. Otherwise, only 1 day out of 4 has 2,500 to 3,000 foot (760 to 900 meters) ceilings. Skies tend to clear after dark, but clouds return by late morning. With frontal systems, mountains are almost always obscured (often above 2,500 feet/760 meters MSL) from late morning to late afternoon.

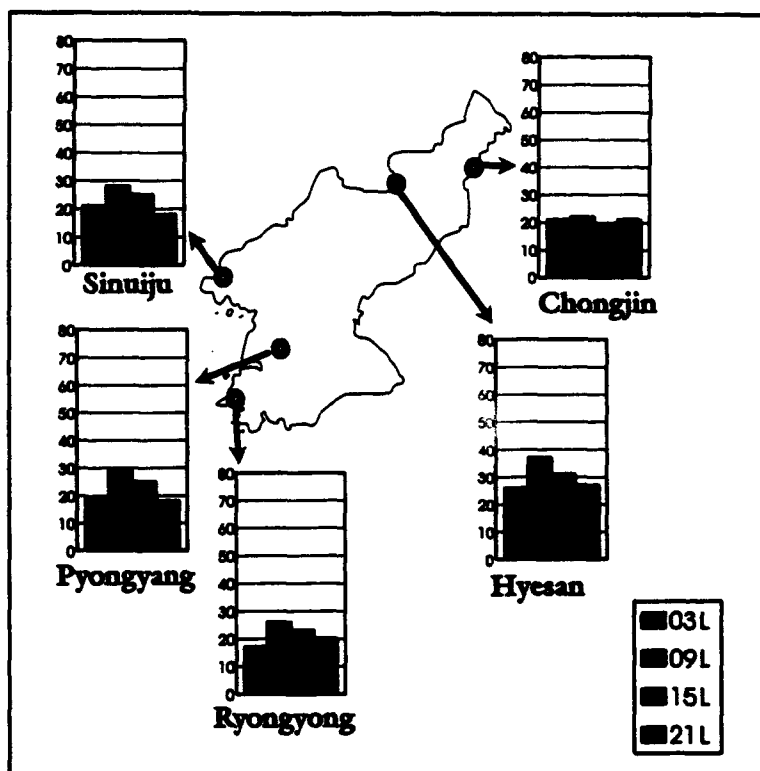


Figure 5-4. Fall Percent Frequencies of Ceilings Below 3,000 Feet.

PRECIPITATION. Most precipitation still falls as rain; frequencies, shown in Figure 5-5, decrease to between 3 and 9 days a month. However, Hyesan, on the North Korea-Manchurian border, sees isolated snowfalls, mostly after 15 October. The snowline over the higher Hamgyong mountains appears by mid-October; by the end of the month, it is down to 2,500 feet (760 meters) north of 40° N. Precipitation amounts are low, averaging 25 to 75 mm; stations in the area south of 40° N, however, have recorded up to 450 mm.

THUNDERSTORMS. Thunderstorms become extremely rare, with only one thunderstorm day recorded at any one location; in the extreme north, they are even rarer. Tops reach 30,000 to 35,000 feet (9.1 to 10.7 km). Ceilings and visibilities in the rare thunderstorm drop to 1,000 feet and 3 miles (300 meters and 1,600 meters). The usual hazards are found in and near storms.

TEMPERATURES. Temperatures, especially in the north, fall rapidly. Highs average 60° to 70° F; lows, in the lower 40s. Extreme lows throughout the country, however, have dipped into the lower 20s; along the Manchurian border, they have reached 3° F.

ADDITIONAL HAZARDS. Sea survival times begin to shorten dramatically. The average off the northeast coast falls to less than 4 hours; off the northwest coast, to less than 6 hours. The rapid onset of extremely cold temperatures can have drastic effects on unprepared personnel. Ground freezes rapidly north of 41° N. Although this solves trafficability problems by turning the mud to a solid, it creates new problems; for

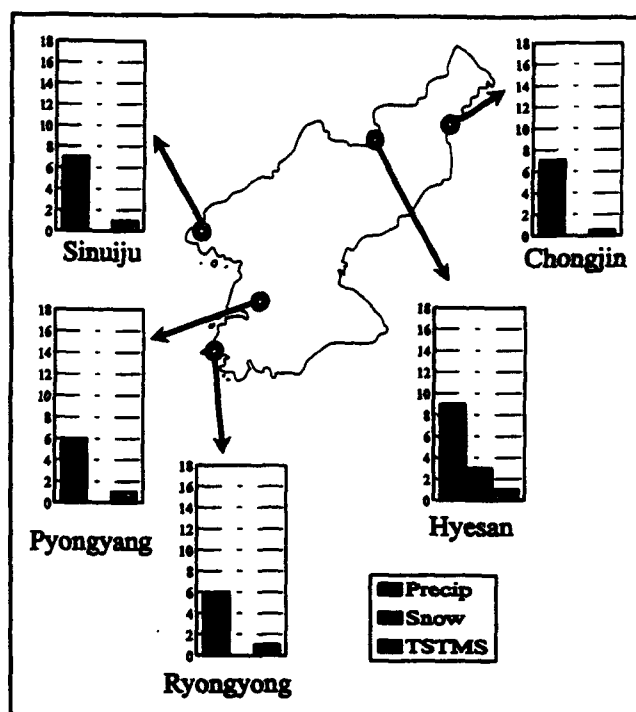


Figure 5-5. Fall Mean Monthly Precipitation, Snow, and Thunderstorm Days.

example, ground freezes hard in extremely cold temperatures; artillery cannot fire properly because the recoil mechanism—normally anchored in the ground—cannot hold the weapon. Equipment freezes; frostbite is common. In-cloud icing poses problems for helicopters and light fixed wing aircraft. Strong low-level winds cause mountain waves and moderate to severe turbulence over rough terrain. An abnormally early heavy snow (which can occur in October) can drop 20 to 25 cm of snow along the east coast and over the southeastern Hamgyong mountains.

Chapter 6

WINTER (November through March)

This chapter describes North Korea's weather during winter (November through March). After describing general weather conditions, specific information is provided on the standard weather elements listed below.

Winds	6-2
Visibility	6-3
Sky Cover	6-3
Precipitation	6-4
Thunderstorms	6-4
Temperature	6-4
Additional Hazards	6-5

GENERAL WEATHER-WINTER

By mid-November, the Asiatic High has reached full strength. Skies clear and visibilities become excellent. Strong and gusty northwesterly winds become common while temperatures plummet. The northern storm tracks become active; Mongolian lows are the most common. Only the migratory lows coming southeast out of Manchuria or a Yellow Sea low moving eastward to the south bring extensive layered clouds and snow. Conditions do not begin to moderate until mid-March.

WINDS.

Surface Winds. As shown in Figure 6-1, winds at the surface are northerly, and strong. Even during a new Siberian outbreak, however, late night and early mornings may see calm conditions. This is especially true in protected mountain valleys. Speeds in gusts can exceed 45 knots; over ridges, they can exceed 65 knots.

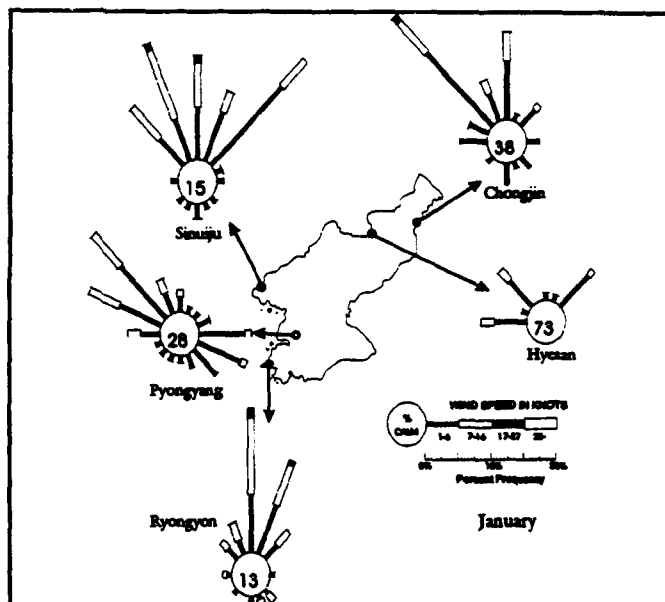


Figure 6-1. January Wind Roses.

Upper winds (Figure 6-2) reflect the now combined Polar and Subtropical Jet streams; mean speeds at all levels above 500 mb have exceeded 100 knots. Winds may exceed 200 knots above 30,000 feet with stronger upper-air systems.

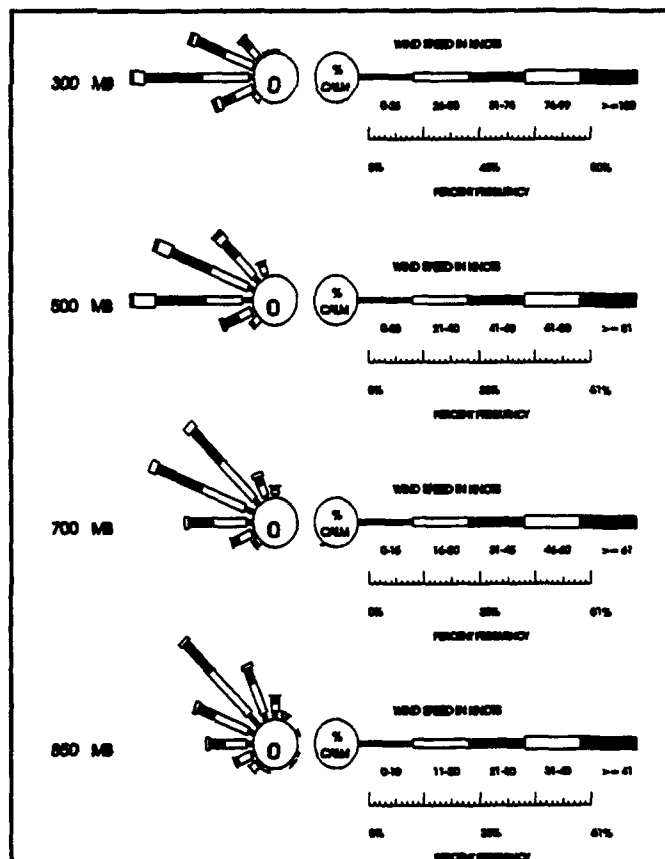


Figure 6-2. January Upper-Air Wind Roses for Pyongyang.

VISIBILITY. Winter visibilities are generally excellent (see Figure 6-3), with three exceptions:

- Late night and early morning ground fog is common providing there is no wind, the terrain is favorable, and a moisture source is available.
- With light or calm winds, nocturnal visibilities in urban areas are below 3 miles just before and after dawn due to smoke.
- Snow can drop visibilities to near zero, especially over higher terrain. Visibilities go almost immediately from unrestricted to 100 meters in heavy snow showers along each coast, but especially on the west coast.

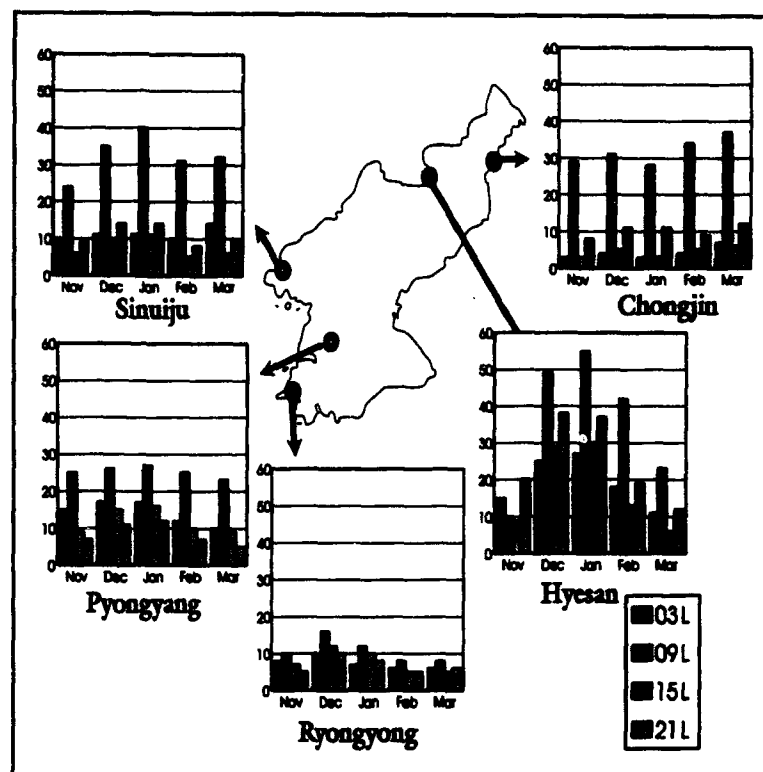


Figure 6-3. Percent Frequencies of Visibilities Below 1,600 Meters.

SKY COVER. Except for passing frontal lows, middle and high clouds are rarely present. Ceilings of 2,000 to 3,000 feet (600 to 900 meters) are relatively common south of 41° N, especially from late morning through sunset (see Figure 6-4). These ceilings can be particularly problematic near the east coast as onshore winds bring moist cold air inland. Layered clouds with frontal systems often extend from 1,000 to 30,000 feet (300 meters to 9.1 km). Under extremely cold conditions with light winds, ice fog may form near urban centers and airfields; ice-fog tops are below 500 feet (150 meters) AGL; dissipation requires heating and the cessation of the human activity that caused it.

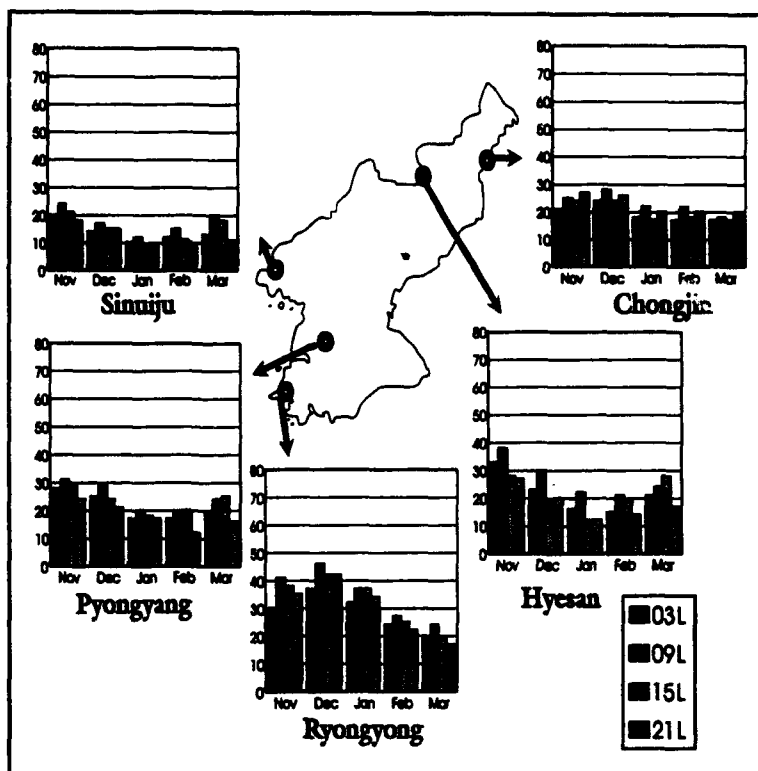


Figure 6-4. Winter Percent Frequencies of Ceilings Below 3,000 Feet.

PRECIPITATION. Precipitation days increase rapidly northward, reflecting the increasing activity along the northern storm tracks (see Figure 6-5). Precipitation north of 40° N (all snow) averages less than 10 mm a month. South of 40° N, mean monthly amounts jump to near 25 mm. 24-hour extremes, however, have reached 75 mm in the Wonson area with strong onshore flow behind an eastward-moving frontal low. Almost all falls as snow from mid-December through late February. Some freezing rain may fall along the immediate coasts near the DMZ.

THUNDERSTORMS. Winter thunderstorms are almost unknown, as Figure 6-5 shows, but a very rare cold-air thunderstorm may occur with intense low-pressure systems. Tops are less than 25,000 feet (7.6 km) MSL.

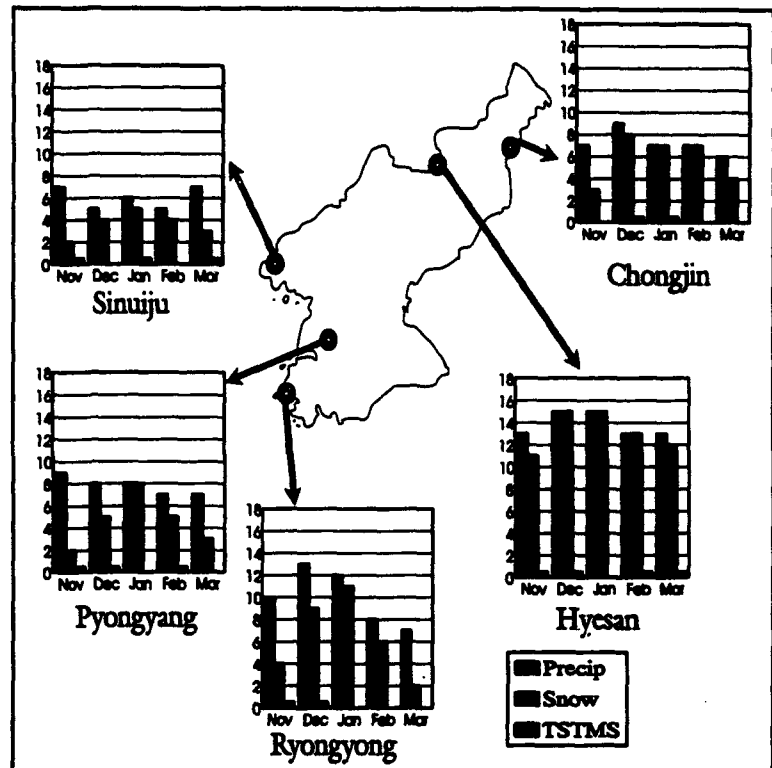


Figure 6-5. Winter Mean Monthly Precipitation, Snow, and Thunderstorm Days.

TEMPERATURE. Bitterly cold weather, with extreme wind chills and high frostbite risks, is the rule. Figure 6-6 gives percentages of times in January that wind-chill temperatures are below -25° F. High temperatures are at the freezing mark (or just above it) only along the east coast south of 41° N; all other areas are well below freezing. The Manchurian border averages from 12° to 15° F; the Kaema Plateau and the Hamgyong Mountains are well below that. Lows average 10 to 15° F along the coast and up to near -30° F along the eastern Manchurian border.

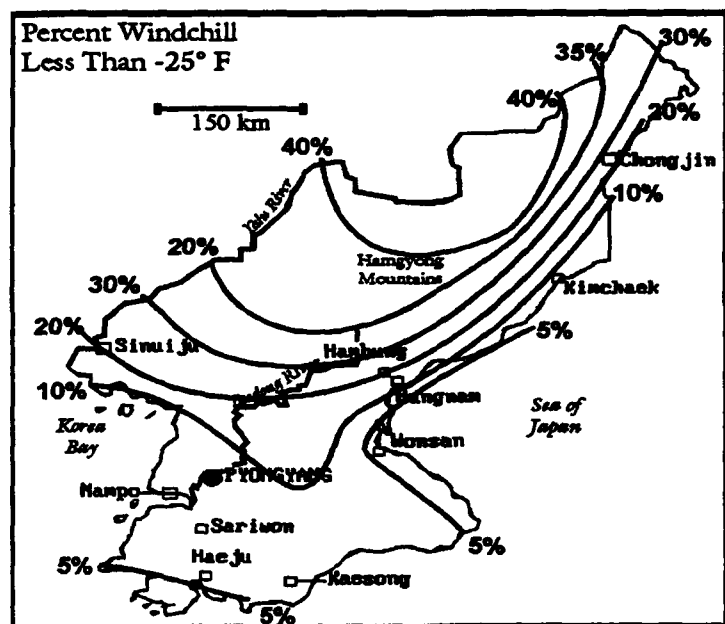


Figure 6-6. January Percent Frequencies of Windchills Below -25° F.

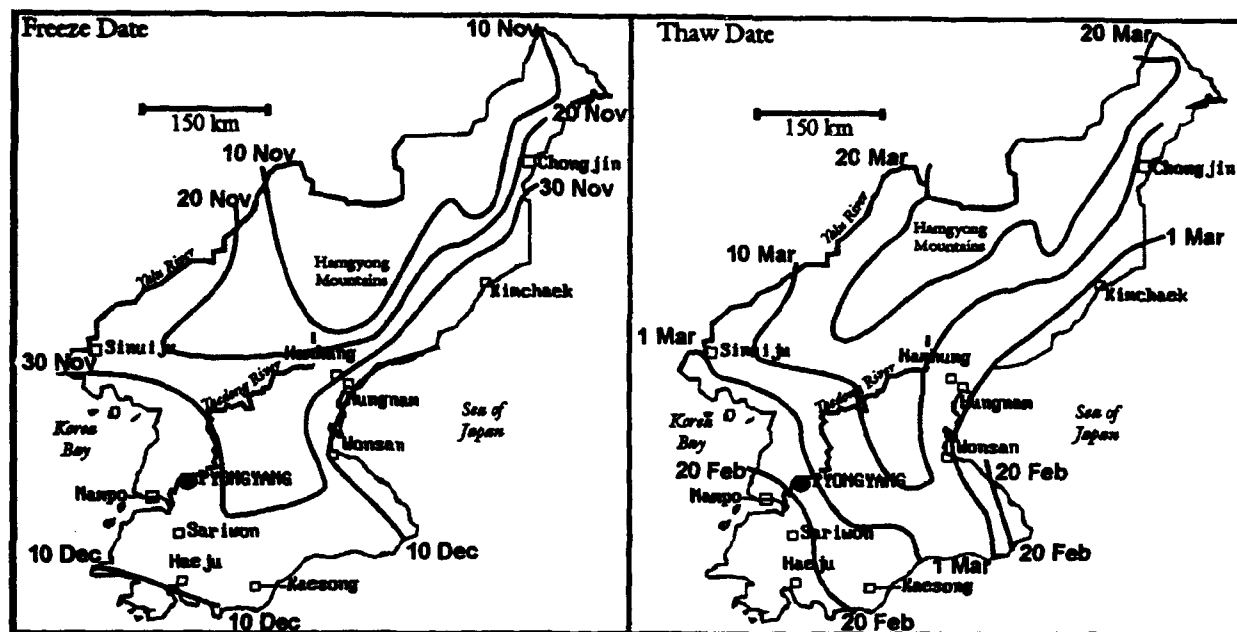


Figure 6-7. Mean Dates of First Freeze (left) and First Thaw (right). All the ground in North Korea freezes by early December; in the north, it doesn't thaw until late March. Rivers freeze solid by late December, and do not thaw until April.

ADDITIONAL HAZARDS. Water survival times now range from less than 15 minutes off the extreme *northeast* coast to 45 minutes off the extreme *northwest* coast. In-cloud icing remains a problem along either coast. Poor ceilings and visibilities associated with major lows restrict both air and ground traffic. Severe turbulence occurs

over and downwind of mountain ridges with strong northerly flow. The ground freezes solid, causing problems for construction or artillery emplacement. Snow depths along the east coast can reach 65 cm, and 30 cm inland. Drifts have exceeded 1.5 meters. Structural icing is a problem for communications towers and shipping.

BIBLIOGRAPHY

- An, Hui Soo, "On the Meteorological Disaster by Cyclones Around the Korean Peninsula," *Acta Oceanographica Taiwanica*, No 11, pp 10-18, 1990
- Arakawa, H., "Climates of Northern and Eastern Asia," *World Survey of Climatology Volume 8*, Elsevier, Amsterdam, 1969.
- Chung, Yong-Seung, "On the Observations of Yellow Sand (Dust Storms) in Korea," *Atmospheric Environment*, Vol 26A, pp 2743-2749, 1992.
- Climatic Atlas of Korea*, Korea Meteorological Administration, Seoul, 1991.
- Climatological Standard Normals of Korea (1961-1990), Volume I -Daily and 10-Day Normals-*, Korea Meteorological Administration, Seoul, 1991
- Climatic Atlas of Korea*, Korea Meteorological Administration, Seoul, 1991
- Climatological Summary for Korea, January-December*, 1st Weather Wing Climatology Division, Hawaii, 1961
- Coogan, J.L., *Satellite Observed Mesoscale Cloud Features Over Korea*, Technical Paper 33-68, Navy Weather Research Facility, Norfolk, 1968.
- Decker, F. W. et al, *Weather in the Korean Conflict*, Oregon State University, Corvallis, 1956.
- Far East Climatic Atlas*, 1WW SS 105-7, 1st Weather Wing Technical Services,, Hawaii, 1965.
- Hafstead, K.C. and J.H. Safford, *Effects of Three Flood-Producing Rains on Military Operations in Korea*, Technical Memorandum ORO-T-58 (AFFE), John Hopkins University, 1954.
- Jenks, F.W. III and R.J. Lefevre, *Selected Worldwide Environmental Consideration for Aerospace Systems Development*, ASD-TR-91-0531, ASD Staff Meteorology Office, Wright Patterson AFB OH, 1992.
- Lee, Byung Kon, *Statistical and Synoptic Studies of Heavy Rain in Korea*, Geographical Reports of Tokyo Metropolitan University, No 16-19, pp 1-48, 1981-1984.
- Lydolph, P.E., "Climates of the Soviet Union," *World Survey of Climatology Volume 7*, Elsevier, Amsterdam, 1977
- Marcel, G., *Climatology of Asia*, Air France, Paris, 1968.
- Robinson, J.H. and T.C. Dean, *Tactical Mobility Study*, " Technical Report GL-84-11, US Army Engineer Waterways Experiment Station, Vicksburg, 1984
- Spencer, James W., *Army Field Manual 100-5 vs Sun Tzu: Operational Problems Facing Korea Airland Battle Planners*, US Naval War College, 1988.
- Summary of Synoptic Meteorological Observations-Japanese and Korean Coastal Marine Areas-*

Volume 8, Area 24 -Wonsan, Naval Weather Service Command, Asheville, 1971.

*Summary of Synoptic Meteorological Observations-Japanese and Korean Coastal Marine Areas-
Volume 10, Naval Weather Service Command, Asheville, 1971.*

Terminal Forecast Manual, Seoul AB, Korea, Det 18, 20WS, 1960.

*Tide Tables 1994 High and Low Water Predictions Central and Western Pacific Ocean and Indian
Ocean, National Oceanographic and Atmospheric Administration, Washington, 1993.*

Traxler, K.M. et al, Southeast Asia--A Regional Climatology, (in press).

*US Navy Regional Climatic Study of the Central East Asian Coast and Associated Waters, NAVAIR
50-1C-556, Naval Oceanography Command, Asheville, 1989.*

*Waters, A., Recurring Eastern Asiatic Synoptic Features, Technical Study 14, 1st Weather Wing,
Hawaii, 1967.*

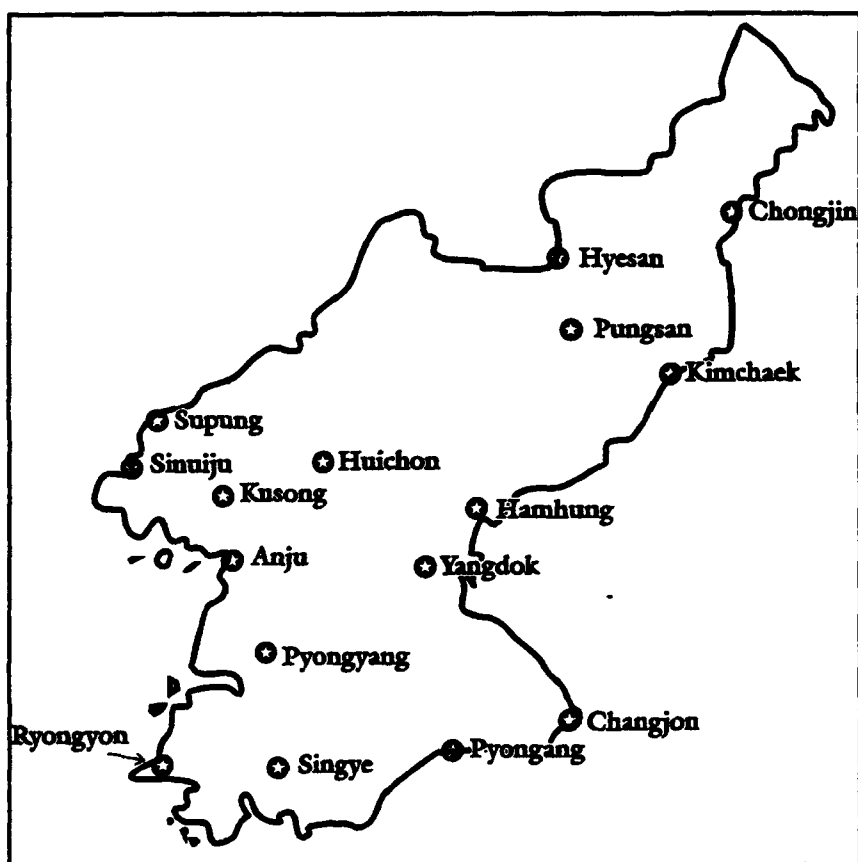
Zhang, J. and Z. Lin, The Climate of China, John Wiley and Sons, New York, 1992.

Appendix A

Operational Climatic Data Summaries for North Korea

The Appendix provides all available Operational Climatic Data Summaries (OCDSs) for North Korean stations. Most have not been previously published. Stations included (with WMO identifier) are listed below. The map shows their locations.

470080	Chongjin	470410	Hamheung
470160	Hyesan	470500	Anju
470220	Pungsan	470520	Yangdok
470250	Kimchaek/Songjin	470580	Pyongyang/Sunan
470280	Supung	470610	Changjon
470310	Changjin	470670	Singye
470350	Shinuiju	470680	Ryongyon
470370	Kusong	470750	Pyonggang
470390	Huichon		



North Korean OCDS Stations

OPERATIONAL CLIMATIC DATA SUMMARY

STATION: AMJU, NORTH KOREA

LOCATION: 3937N 12539E

PREPARED BY: USAFETAC/DOC, MAR 1994

STATION #: 470500

ELEVATION (FEET): 89

PERIOD: 7604-9212

ICAO:

LST = GMT + 9

SOURCE NO.	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
1. TEMPERATURE (F)													
EXTREME MAX	1	48	53	68	80	88	92	95	93	86	80	72	55 95
MEAN DAILY MAX	1	25	32	44	58	68	76	80	81	74	62	45	32 56
MEAN	1	17	24	36	49	60	69	74	74	64	52	37	25 48
MEAN DAILY MIN	1	8	15	28	40	51	61	68	68	56	43	29	17 40
EXTREME MIN	1	-17	-8	3	25	35	48	54	52	37	23	6	-7 -17
# DAYS GE 90	1	0	0	0	0	0	#	1	1	0	0	0	0 2
# DAYS LE 32	1	31	28	24	3	0	0	0	0	3	19	29	137
# DAYS LE 0	1	7	2	0	0	0	0	0	0	0	0	2	10
2. PRECIPITATION (INCHES)													
MAXIMUM		*	*	*	*	*	*	*	*	*	*	*	*
MEAN	2	.6	.6	1.5	2.2	3.5	3.7	12.4	9.8	5.5	2.2	1.4	.7 43.8
MINIMUM		*	*	*	*	*	*	*	*	*	*	*	*
MAX 24 HR		*	*	*	*	*	*	*	*	*	*	*	*
# DAYS W/PRECIP	1	6	4	5	7	8	8	13	9	6	4	6	82
# DAYS GE 0.5		*	*	*	*	*	*	*	*	*	*	*	*
3. SNOWFALL (INCHES)													
MEAN		*	*	*	*	*	*	*	*	*	*	*	*
MAXIMUM		*	*	*	*	*	*	*	*	*	*	*	*
MAX 24 HR		*	*	*	*	*	*	*	*	*	*	*	*
# DAYS SNOWFALL	1	5	4	2	0	0	0	0	0	0	1	4	17
# DAYS GE 1.5		*	*	*	*	*	*	*	*	*	*	*	*
4. MEAN RELATIVE HUMIDITY (%) / VAPOR PRESSURE (IN HG) / DEWPOINT (F)													
RH (6 LST)	1	79	79	80	81	84	87	91	91	90	85	81	80 84
RH (15 LST)	1	57	53	54	50	53	61	72	68	57	52	56	60 58
VAPOR PRESS	1	.08	.10	.15	.24	.36	.54	.72	.71	.48	.30	.18	.11 .33
DEWPOINT	1	9	15	26	37	49	60	68	68	56	43	29	17 40
5. SURFACE WINDS 16 PT/KTS / 99.95% HIGHEST PRESSURE ALTITUDE (FEET)													
PVLG DRCTN	1	\$NE	\$NW	\$SW	\$SW	\$SW	\$SW	\$SE	\$SE	\$SE	\$SE	\$NE	\$NE \$SE
MEAN SPEED													
(PVLG DRCTN)	1	5	8	7	8	7	6	5	5	5	5	5	6
MEAN SPEED													
(ALL OBS)	1	3	4	4	5	5	4	4	3	3	4	4	4
MAX PEAK GUST	1	*	*	*	*	*	*	*	*	*	*	*	*
PRESSURE ALT	1	322	350	593	838	631	762	810	876	546	480	359	387 876
6. MEAN CLOUD COVER (8THS) / THUNDERSTORMS / FOG / BLOWING SAND & DUST (BNBD)													
CLD COVER	1	3	3	4	4	5	5	6	5	4	3	3	3 4
DAYS TSTMS	1	#	#	#	#	1	1	1	1	1	#	#	0 7
DAYS FOG LT 7	1	12	10	13	14	14	13	15	14	11	11	9	11 146
DAYS BNBD LT 7	1	#	#	#	#	0	0	#	0	#	0	0	0 1

OPERATIONAL CLIMATIC DATA SUMMARY

STATION: ANJU, NORTH KOREA
 LOCATION: 3937N 12539E
 PREPARED BY: USAFETAC/DOC, MAR 1994

STATION #: 470500
 ELEVATION (FEET): 89 LST = GMT + 9
 PERIOD: 7604-9212

7. PERCENTAGE FREQUENCY OF OCCURRENCE (% FREQ) OF CEILING AND/OR VISIBILITY (CIG/VIS) LT 3000/3 STATUTE MILES (MI) (SOURCE NO. 1)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
00-02 LST	15	13	16	21	27	33	50	38	24	18	26	21	25
03-05 LST	15	15	18	25	28	37	58	39	28	21	28	22	28
06-08 LST	15	16	21	34	35	48	67	56	39	28	31	23	34
09-11 LST	24	21	27	30	33	45	61	48	33	30	34	28	34
12-14 LST	18	18	19	28	33	42	62	45	31	24	30	23	31
15-17 LST	14	15	20	28	31	40	57	43	32	24	30	24	30
18-20 LST	19	14	19	24	26	37	49	37	25	21	29	26	27
21-23 LST	17	13	15	21	27	39	51	35	22	18	26	22	25
ALL HOURS	17	16	19	26	30	40	57	42	29	23	29	24	29

% FREQ OF CIG/VIS LT 1500/3 MI (SOURCE NO. 1)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
00-02 LST	2	#	2	1	2	0	2	1	1	#	1	3	1
03-05 LST	2	#	3	2	2	1	3	3	2	3	2	3	2
06-08 LST	2	1	4	7	8	5	9	10	10	7	4	4	6
09-11 LST	5	5	6	6	4	3	4	4	5	6	5	5	5
12-14 LST	3	2	3	1	2	1	#	1	#	1	2	3	2
15-17 LST	1	#	1	1	1	1	1	#	#	#	#	2	1
18-20 LST	1	1	1	1	#	#	1	1	0	0	#	2	1
21-23 LST	1	1	1	1	1	#	1	#	#	#	1	1	1
ALL HOURS	2	1	2	2	2	1	3	3	2	2	2	3	2

9. % FREQ OF CIG/VIS LT 1000/2 MI (SOURCE NO. 1)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
00-02 LST	2	#	1	1	1	0	1	1	#	#	1	2	1
03-05 LST	2	0	3	2	2	1	2	2	1	2	2	3	2
06-08 LST	2	1	3	5	6	3	7	9	8	7	4	4	5
09-11 LST	4	4	5	4	2	2	3	3	3	6	5	4	4
12-14 LST	3	1	2	1	1	1	#	1	0	#	1	2	1
15-17 LST	1	0	#	#	#	#	#	0	#	0	0	1	#
18-20 LST	1	#	#	1	0	#	1	#	0	0	#	1	#
21-23 LST	1	1	#	1	1	#	1	0	0	0	#	1	1
ALL HOURS	2	1	2	2	1	1	2	2	2	2	2	2	2

10. % FREQ OF CIG/VIS LT 200/0.5 MI (SOURCE NO. 1)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
00-02 LST	1	#	1	#	1	0	1	#	#	0	1	2	1
03-05 LST	1	0	2	1	1	1	2	1	1	2	2	2	1
06-08 LST	1	1	2	4	4	3	4	5	5	5	4	3	3
09-11 LST	2	1	4	2	1	1	1	1	2	5	4	3	2
12-14 LST	1	1	1	0	0	#	#	0	0	0	1	2	1
15-17 LST	0	0	0	0	0	0	0	0	#	0	0	1	#
18-20 LST	#	#	#	#	0	0	#	#	0	0	#	1	#
21-23 LST	1	#	#	#	0	0	#	0	0	0	#	1	#
ALL HOURS	1	#	1	1	1	1	1	1	1	2	1	2	1

OPERATIONAL CLIMATIC DATA SUMMARY

STATION: ANJU, NORTH KOREA
 LOCATION: 3937N 12539E
 PREPARED BY: USAFETAC/DOC, MAR 1994

STATION #: 470500
 ELEVATION (FEET): 89
 PERIOD: 7604-9212

ICAO:
 LST = GMT + 9

11. PERCENTAGE FREQUENCY OF OCCURRENCE (% FREQ) OF THUNDERSTORMS:

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
00-02 LST	0	0	0	0	0	1	#	#	#	0	0	0	#
03-05 LST	0	0	0	#	#	1	#	#	#	#	0	0	#
06-08 LST	0	0	#	0	#	#	2	1	1	#	0	0	#
09-11 LST	0	0	0	0	#	#	#	#	1	#	0	0	#
12-14 LST	#	#	0	0	#	#	#	#	#	0	#	0	#
15-17 LST	0	0	#	#	0	#	#	1	#	#	#	0	#
18-20 LST	0	0	0	#	1	#	1	1	#	#	#	0	#
21-23 LST	0	0	0	0	1	1	1	1	1	#	0	0	#
ALL HOURS	#	#	#	#	#	#	1	1	1	#	#	0	#

12. % FREQ RAIN AND/OR DRIZZLE:

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
00-02 LST	#	1	2	6	10	6	13	9	6	3	5	2	5
03-05 LST	#	1	2	7	6	9	14	8	7	4	5	1	5
06-08 LST	0	#	3	7	9	10	16	11	6	3	4	3	6
09-11 LST	1	#	3	6	8	11	16	10	6	3	4	2	6
12-14 LST	#	1	3	7	8	8	14	12	7	2	4	#	6
15-17 LST	1	1	4	8	6	9	13	10	8	4	7	2	6
18-20 LST	1	1	3	7	7	7	14	11	6	3	7	1	6
21-23 LST	1	1	2	5	7	8	11	9	7	4	4	1	5
ALL HOURS	#	1	3	7	8	9	14	10	6	3	5	2	6

13. % FREQ SNOW AND/OR ICE PELLETS:

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
00-02 LST	4	3	2	#	0	0	0	0	0	0	1	3	1
03-05 LST	3	4	2	0	0	0	0	0	0	0	1	3	1
06-08 LST	5	4	2	#	0	0	0	0	0	#	2	4	1
09-11 LST	6	4	2	#	0	0	0	0	0	#	1	5	2
12-14 LST	6	2	2	#	0	0	0	0	0	#	1	3	1
15-17 LST	4	2	3	#	0	0	0	0	0	0	#	3	1
18-20 LST	4	3	2	#	0	0	0	0	0	#	1	4	1
21-23 LST	3	3	2	0	0	0	0	0	0	0	1	2	1
ALL HOURS	4	3	2	#	0	0	0	0	0	#	1	4	1

14. % FREQ OF SURFACE WIND SPEEDS GT 25 KTS. (INCLUDING GUSTS):

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
00-02 LST	0	0	0	#	#	0	0	0	0	0	#	#	#
03-05 LST	0	0	0	0	0	#	0	#	0	0	0	0	#
06-08 LST	0	0	0	0	0	0	#	0	0	0	#	0	#
09-11 LST	0	0	0	0	0	0	0	0	0	0	0	0	0
12-14 LST	0	0	0	#	0	0	0	0	0	0	0	0	#
15-17 LST	0	0	0	1	0	0	#	0	0	0	#	0	#
18-20 LST	0	#	0	#	#	#	0	0	#	0	0	#	#
21-23 LST	0	0	0	#	#	0	0	0	0	0	0	0	#
ALL HOURS	0	#	0	#	#	#	#	#	#	0	#	#	#

OPERATIONAL CLIMATIC DATA SUMMARY

STATION: ANJU, NORTH KOREA
 LOCATION: 3937N 12539E
 PREPARED BY: USAFETAC/DOC, MAR 1994

STATION #: 470500
 ELEVATION (FEET): 89
 PERIOD: 7604-9212

ICAO:
 LST = GMT + 9

15. % FREQ OF CEILING AND/OR VISIBILITY (CIG/VIS) LT 800/2 MI:

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
00-02 LST	2	#	1	1	1	0	1	1	#	#	1	2	1
03-05 LST	2	0	3	2	2	1	2	2	1	2	2	3	2
06-08 LST	2	1	3	5	6	3	7	9	8	7	4	4	5
09-11 LST	4	4	5	4	2	2	3	3	3	6	5	4	4
12-14 LST	3	1	2	1	1	1	#	1	0	#	1	2	1
15-17 LST	1	0	#	#	#	#	#	0	#	0	0	1	#
18-20 LST	1	#	#	1	0	#	1	#	0	0	#	1	#
21-23 LST	1	1	#	1	1	#	1	0	0	0	#	1	1
ALL HOURS	2	1	2	2	1	1	2	2	2	2	2	2	2

16. % FREQ OF CIG/VIS LT 500/1.5 MI:

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
00-02 LST	1	#	1	1	1	0	1	1	#	#	1	2	1
03-05 LST	1	0	3	2	1	1	2	2	1	2	2	3	2
06-08 LST	2	1	3	5	6	3	7	8	8	7	4	4	5
09-11 LST	3	4	5	4	2	2	2	2	3	6	4	4	4
12-14 LST	3	1	2	1	#	1	#	#	0	#	1	2	1
15-17 LST	#	0	#	#	0	#	#	0	#	0	0	1	#
18-20 LST	1	#	#	1	0	#	1	#	0	0	#	1	#
21-23 LST	1	1	#	1	1	#	1	0	0	0	#	1	#
ALL HOURS	2	1	2	2	1	1	2	2	2	2	2	2	2

17. % FREQ OF CIG/VIS LT 300/1 MI:

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
00-02 LST	1	#	1	#	1	0	1	#	#	0	1	2	1
03-05 LST	1	0	3	2	1	1	2	1	1	2	2	3	2
06-08 LST	2	1	3	5	5	3	6	6	7	6	4	3	4
09-11 LST	2	2	4	3	1	1	1	1	3	5	4	4	3
12-14 LST	2	1	1	#	#	1	#	#	0	0	1	2	1
15-17 LST	#	0	#	#	0	0	0	0	#	0	0	1	#
18-20 LST	1	#	#	#	0	0	#	#	0	0	#	1	#
21-23 LST	1	1	#	#	#	0	#	0	0	0	#	1	#
ALL HOURS	1	1	2	1	1	1	1	1	1	2	2	2	1

18. % FREQ OF CIG/VIS LT 100/.25 MI:

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
00-02 LST	1	#	1	#	1	0	1	#	0	0	1	1	#
03-05 LST	#	0	2	1	#	0	1	#	1	1	1	1	1
06-08 LST	1	#	1	3	3	2	3	4	5	5	3	2	3
09-11 LST	1	1	3	2	1	1	#	#	1	4	3	2	2
12-14 LST	1	1	#	0	0	#	0	0	0	0	1	2	#
15-17 LST	0	0	0	0	0	0	0	0	0	0	0	1	#
18-20 LST	0	#	#	0	0	0	0	#	0	0	#	#	#
21-23 LST	#	#	#	#	0	0	#	0	0	0	#	1	#
ALL HOURS	1	#	1	1	1	#	1	1	1	1	1	1	1

SOURCE(S): 1. USAFETAC DATSAV2 SURFACE, APR 76 - DEC 92, 3 HOURLY OBS.
 2. NATIONAL INTELLIGENCE SURVEY, 1969, 24 YEARS OF RECORD.

REMARKS: * = DATA NOT AVAILABLE # = LT 0.5 DAY, OR 0.05 INCH, OR 0.5%, AS
 APPLICABLE \$ = % CALM GT PVLGN DRCTN
 ‡ = BASED ONLY ON AVAILABLE DATA, I.E. LT 24 HRS/DAY, OR LT 12 MONTH/YR
 ANNUAL TOTALS MAY NOT EQUAL THE SUM OF MONTHLY TOTALS DUE TO ROUNDING

OPERATIONAL CLIMATIC DATA SUMMARY

STATION: CHANGJIN, NORTH KOREA
 LOCATION: 4022N 12715E
 PREPARED BY: USAFETAC/DOC, DEC 1993

STATION #: 470310
 ELEVATION (FEET): 3547
 PERIOD: 7604-9212

ICAO:
 LST = GMT + 9

	SOURCE NO.	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
1. TEMPERATURE (F)														
EXTREME MAX	1	40	48	57	71	81	85	88	92	80	75	63	50	92
MEAN DAILY MAX	1	16	21	33	47	60	66	70	71	62	51	34	22	46
MEAN	1	3	9	23	37	49	57	63	62	51	39	25	11	36
MEAN DAILY MIN	1	-10	-4	10	27	37	48	56	55	43	29	15	0	26
EXTREME MIN	1	-36	-32	-19	4	19	34	36	39	22	9	-9	-28	-36
# DAYS GE 90	1	0	0	0	0	#	0	0	#	0	0	0	0	0
# DAYS LE 32	1	31	28	31	24	8	0	0	0	2	21	29	31	205
# DAYS LE 0	1	27	21	6	0	0	0	0	0	0	0	3	17	73
2. PRECIPITATION (INCHES)														
MAXIMUM		*	*	*	*	*	*	*	*	*	*	*	*	*
MEAN		*	*	*	*	*	*	*	*	*	*	*	*	*
MINIMUM		*	*	*	*	*	*	*	*	*	*	*	*	*
MAX 24 HR		*	*	*	*	*	*	*	*	*	*	*	*	*
# DAYS W/PRECIP	1	6	6	7	9	8	10	12	9	7	5	8	8	93
# DAYS GE 0.5		*	*	*	*	*	*	*	*	*	*	*	*	*
3. SNOWFALL (INCHES)														
MEAN		*	*	*	*	*	*	*	*	*	*	*	*	*
MAXIMUM		*	*	*	*	*	*	*	*	*	*	*	*	*
MAX 24 HR		*	*	*	*	*	*	*	*	*	*	*	*	*
# DAYS SNOWFALL	1	6	5	7	5	1	0	0	0	0	1	5	7	38
# DAYS GE 1.5		*	*	*	*	*	*	*	*	*	*	*	*	*
4. MEAN RELATIVE HUMIDITY (%) / VAPOR PRESSURE (IN HG) / DEWPOINT (F)														
RH (6 LST)	1	85	86	86	87	89	95	95	90	95	89	85	85	90
RH (15 LST)	1	60	57	55	53	48	61	73	69	59	48	58	61	59
VAPOR PRESS	1	.04	.06	.09	.16	.23	.37	.51	.50	.32	.18	.11	.07	.22
DEWPOINT	1	-2	2	14	27	37	50	58	58	45	30	17	5	28
5. SURFACE WINDS 16 PT/KTS / 99.95% HIGHEST PRESSURE ALTITUDE (FEET)														
PVLG DRCTN	1	\$NW	\$NW	\$NW	\$NW	\$NW	\$S	\$S	\$S	\$S	\$NW	\$NW	\$NW	\$NW
MEAN SPEED														
(PVLG DRCTN)	1	9	9	9	9	9	8	8	8	8	9	9	9	9
MEAN SPEED														
(ALL OBS)	1	4	4	4	5	5	4	3	3	3	4	4	4	4
MAX PEAK GUST	1	*	*	*	*	*	*	*	*	*	*	*	*	*
PRESSURE ALT	1	3604	3632	3902	3948	4221	3864	4249	4287	4155	4610	3511	4363	4610
6. MEAN CLOUD COVER (8THS) / THUNDERSTORMS / FOG / BLOWING SAND & DUST (BNBD)														
CLD COVER	1	2	3	4	4	5	6	6	6	5	4	3	3	4
DAYS TSTMS	1	0	#	0	0	#	#	#	#	#	0	#	0	1
DAYS FOG LT 7	1	2	2	1	3	6	14	14	13	12	10	5	4	85
DAYS BNBD LT 7	1	#	0	#	0	#	#	#	#	#	#	#	0	1

OPERATIONAL CLIMATIC DATA SUMMARY

STATION: CHANGJIN, NORTH KOREA
 LOCATION: 4022N 12715E
 PREPARED BY: USAFETAC/DOC, DEC 1993

STATION #: 470310
 ELEVATION (FEET): 3547
 PERIOD: 7604-9212

ICAO:
 LST = GMT + 9

7. PERCENTAGE FREQUENCY OF OCCURRENCE (% FREQ) OF CEILING AND/OR VISIBILITY (CIG/VIS) LT 3000/3 STATUTE MILES (MI) (SOURCE NO. 1)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
00-02 LST	16	17	22	28	34	51	64	60	50	32	32	22	36
03-05 LST	16	18	22	31	39	66	80	80	70	38	36	24	43
06-08 LST	15	20	26	38	48	83	92	94	83	53	42	27	52
09-11 LST	24	25	27	36	38	61	80	80	79	58	48	36	49
12-14 LST	15	18	26	37	40	48	62	50	38	29	30	23	35
15-17 LST	16	21	30	40	47	52	66	51	45	31	30	25	38
18-20 LST	15	17	26	37	42	52	65	54	43	30	31	20	36
21-23 LST	15	16	22	29	33	49	60	53	40	28	30	19	33
ALL HOURS	17	19	25	34	40	58	71	65	56	37	35	25	40

8. % FREQ OF CIG/VIS LT 1500/3 MI (SOURCE NO. 1)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
00-02 LST	2	3	3	5	6	12	16	14	13	8	7	3	8
03-05 LST	2	3	4	6	9	24	29	30	27	14	9	5	13
06-08 LST	2	5	5	11	22	51	49	47	41	23	14	6	23
09-11 LST	7	11	6	9	10	22	22	26	30	27	16	14	17
12-14 LST	4	3	3	5	6	6	9	6	6	5	5	6	5
15-17 LST	2	3	4	7	7	8	9	7	5	6	4	4	6
18-20 LST	3	3	3	6	6	9	10	9	8	6	5	4	6
21-23 LST	2	3	4	6	6	10	11	11	9	7	8	3	7
ALL HOURS	3	4	4	7	9	18	19	19	17	12	9	6	11

9. % FREQ OF CIG/VIS LT 1000/2 MI (SOURCE NO. 1)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
00-02 LST	#	1	1	1	2	4	8	7	8	4	4	1	3
03-05 LST	1	1	1	2	4	15	20	22	21	9	5	2	9
06-08 LST	1	2	2	6	17	44	43	38	33	20	9	4	18
09-11 LST	5	6	3	4	5	15	13	17	22	23	10	9	11
12-14 LST	3	1	#	1	1	1	3	2	1	2	1	2	2
15-17 LST	#	1	1	0	1	2	2	2	1	2	1	1	1
18-20 LST	#	1	#	1	#	3	3	2	2	2	1	#	1
21-23 LST	#	#	#	1	1	4	3	3	3	2	4	2	2
ALL HOURS	1	2	1	2	4	11	12	12	11	8	4	3	6

10. % FREQ OF CIG/VIS LT 200/0.5 MI (SOURCE NO. 1)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
00-02 LST	0	#	0	#	1	1	#	1	3	2	1	#	1
03-05 LST	0	#	0	1	3	9	9	12	12	5	3	#	5
06-08 LST	0	#	1	5	12	30	26	26	24	14	5	2	12
09-11 LST	1	1	1	2	2	3	2	3	7	16	6	4	4
12-14 LST	#	0	#	0	#	0	#	#	0	0	#	#	#
15-17 LST	0	#	#	0	#	#	0	#	#	1	#	#	#
18-20 LST	0	0	0	1	0	1	0	#	1	1	#	0	#
21-23 LST	#	0	0	#	0	#	#	1	0	#	1	#	#
ALL HOURS	#	#	#	1	2	6	5	6	6	5	2	1	3

OPERATIONAL CLIMATIC DATA SUMMARY

STATION: CHANGJIN, NORTH KOREA

LOCATION: 4022N 12715E

PREPARED BY: USAFETAC/DOC, DEC 1993

STATION #: 470310

ELEVATION (FEET): 3547

PERIOD: 7604-9212

ICAO:

LST = GMT + 9

11. PERCENTAGE FREQUENCY OF OCCURRENCE (% FREQ) OF THUNDERSTORMS:

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
00-02 LST	0	#	0	0	#	0	0	0	0	0	0	0	#
03-05 LST	0	0	0	0	0	0	0	0	0	0	0	0	0
06-08 LST	0	0	0	0	0	0	#	0	0	0	0	0	#
09-11 LST	0	0	0	0	0	0	0	0	#	0	0	0	#
12-14 LST	0	0	0	0	0	0	0	0	0	0	0	0	0
15-17 LST	0	0	0	0	0	1	#	0	0	0	#	0	#
18-20 LST	0	#	0	0	0	1	0	#	#	0	0	0	#
21-23 LST	0	0	0	0	#	0	#	#	#	0	0	0	#
ALL HOURS	0	#	0	0	#	#	#	#	#	0	#	0	#

12. % FREQ RAIN AND/OR DRIZZLE:

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
00-02 LST	0	0	0	4	7	10	9	7	5	2	1	#	4
03-05 LST	0	#	#	4	5	9	13	7	5	2	2	0	4
06-08 LST	0	0	0	4	5	10	12	7	7	4	2	#	4
09-11 LST	0	0	#	4	6	7	10	10	6	3	3	1	4
12-14 LST	0	#	#	5	7	6	11	10	7	3	2	#	4
15-17 LST	0	0	1	5	8	9	10	10	7	3	2	1	5
18-20 LST	0	1	#	4	8	9	11	11	6	3	2	#	5
21-23 LST	0	0	#	6	7	10	14	7	7	5	2	#	5
ALL HOURS	0	#	#	4	7	9	11	9	6	3	2	#	4

13. % FREQ SNOW AND/OR ICE PELLETS:

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
00-02 LST	6	4	5	4	1	#	0	0	0	1	4	4	3
03-05 LST	5	4	6	4	1	0	0	0	0	1	6	6	3
06-08 LST	5	7	5	5	2	0	0	0	#	1	6	7	3
09-11 LST	7	7	8	7	1	0	0	0	#	1	6	7	4
12-14 LST	5	4	7	5	1	0	#	0	0	1	4	7	3
15-17 LST	4	4	6	5	#	#	0	0	0	1	4	6	3
18-20 LST	5	4	7	5	1	0	0	0	0	1	5	5	3
21-23 LST	5	5	7	3	1	0	0	0	0	1	4	6	3
ALL HOURS	5	5	6	5	1	#	#	0	#	1	5	6	3

14. % FREQ OF SURFACE WIND SPEEDS GT 25 KTS. (INCLUDING GUSTS):

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
00-02 LST	#	0	0	0	0	0	0	0	0	0	0	0	#
03-05 LST	0	0	0	0	0	#	0	0	0	#	0	0	#
06-08 LST	#	0	0	0	0	0	0	#	0	#	0	#	#
09-11 LST	0	0	0	0	0	#	0	0	0	#	0	0	#
12-14 LST	0	0	0	#	1	0	0	0	0	#	0	0	#
15-17 LST	0	0	#	#	#	0	0	#	0	#	0	#	#
18-20 LST	0	0	0	0	0	0	0	0	0	#	#	0	#
21-23 LST	#	0	0	0	0	0	0	0	0	#	0	0	#
ALL HOURS	#	0	#	#	#	#	0	#	0	#	#	#	#

OPERATIONAL CLIMATIC DATA SUMMARY

STATION: CHANGJIN, NORTH KOREA
 LOCATION: 4022N 12715E
 PREPARED BY: USAFETAC/DOC, DEC 1993

STATION #: 470310
 ELEVATION (FEET): 3547
 PERIOD: 7604-9212

ICAO:
 LST = GMT + 9

15. % FREQ OF CEILING AND/OR VISIBILITY (CIG/VIS) LT 800/2 MI:

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
00-02 LST	#	1	1	1	2	4	8	7	8	4	4	1	3
03-05 LST	1	1	1	2	4	15	20	22	21	9	5	2	9
06-08 LST	1	2	2	6	17	44	43	38	33	20	9	4	18
09-11 LST	5	6	3	4	5	15	13	17	22	23	10	9	11
12-14 LST	3	1	#	1	1	1	3	2	1	2	1	2	2
15-17 LST	#	1	1	0	1	2	2	2	1	2	1	1	1
18-20 LST	#	1	#	1	#	3	3	2	2	2	1	#	1
21-23 LST	#	#	#	1	1	4	3	3	3	2	4	2	2
ALL HOURS	1	2	1	2	4	11	12	12	11	8	4	3	6

16. % FREQ OF CIG/VIS LT 500/1.5 MI:

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
00-02 LST	#	1	1	1	1	3	7	7	8	3	3	1	3
03-05 LST	1	1	1	1	3	14	19	20	19	8	5	2	8
06-08 LST	1	2	1	6	16	42	42	37	32	19	8	4	17
09-11 LST	5	6	2	4	5	15	12	16	20	21	10	8	10
12-14 LST	3	1	#	#	1	#	2	2	1	1	1	2	1
15-17 LST	#	1	1	0	1	1	1	2	#	2	#	#	1
18-20 LST	#	1	#	1	0	3	2	2	2	2	1	0	1
21-23 LST	#	0	#	#	1	3	2	3	2	2	3	2	2
ALL HOURS	1	1	1	2	4	10	11	11	10	7	4	2	5

17. % FREQ OF CIG/VIS LT 300/1 MI:

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
00-02 LST	0	1	#	#	1	1	2	3	4	2	1	1	1
03-05 LST	0	1	#	1	3	11	13	15	16	6	3	1	6
06-08 LST	1	1	1	5	14	35	33	31	27	15	6	3	14
09-11 LST	2	2	1	3	3	9	5	8	11	18	8	5	6
12-14 LST	1	#	#	#	1	#	1	2	#	#	1	1	1
15-17 LST	#	1	#	0	1	1	#	1	#	1	#	#	1
18-20 LST	#	1	#	1	0	2	1	1	2	1	#	0	1
21-23 LST	#	0	#	#	#	1	1	1	2	1	2	1	1
ALL HOURS	1	1	1	1	3	8	7	8	8	5	3	1	4

18. % FREQ OF CIG/VIS LT 100/.25 MI:

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
00-02 LST	0	#	0	0	1	#	#	1	3	2	1	#	1
03-05 LST	0	#	0	1	3	9	9	12	12	5	3	#	4
06-08 LST	0	#	1	4	12	29	25	26	23	14	5	2	12
09-11 LST	1	#	1	2	2	3	2	2	7	15	6	3	4
12-14 LST	#	0	0	0	#	0	#	0	0	0	#	#	#
15-17 LST	0	#	#	0	#	#	0	0	0	#	#	0	#
18-20 LST	0	0	0	#	0	0	0	0	#	#	#	0	#
21-23 LST	#	0	0	#	0	#	0	#	0	#	#	#	#
ALL HOURS	#	#	#	1	2	5	5	5	6	5	2	2	3

SOURCE(S): 1. USAFETAC DATSAV2 SURFACE, APR 76 - DEC 92, 3 HOURLY OBS.
 2.

REMARKS: * = DATA NOT AVAILABLE # = LT 0.5 DAY, OR 0.05 INCH, OR 0.5%, AS APPLICABLE
 \$ = % CALM GT PVLGN DRCTN
 c = BASED ONLY ON AVAILABLE DATA, I.E. LT 24 HRS/DAY, OR LT 12 MONTH/YR
 ANNUAL TOTALS MAY NOT EQUAL THE SUM OF MONTHLY TOTALS DUE TO ROUNDING

OPERATIONAL CLIMATIC DATA SUMMARY

STATION: CHANGJON, NORTH KOREA
 LOCATION: 3844N 12811E
 PREPARED BY: USAFETAC/DOC, DEC 1993

STATION #: 470610
 ELEVATION (FEET): 115
 PERIOD: 7604-9212

ICAO:
 LST = GMT + 9

SOURCE NO.	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
1. TEMPERATURE (F)													
EXTREME MAX	1	56	63	68	83	91	92	95	95	89	84	72	65 95
MEAN DAILY MAX	1	35	36	44	57	68	72	77	78	72	64	52	41 58
MEAN	1	30	32	40	52	61	67	73	74	66	58	46	36 53
MEAN DAILY MIN	1	24	26	35	45	54	62	68	69	61	51	40	30 47
EXTREME MIN	1	2	2	13	30	40	49	54	54	48	32	18	7 2
# DAYS GE 90	1	0	0	0	0	#	#	1	1	0	0	0	0 3
# DAYS LE 32	1	27	23	10	#	0	0	0	0	0	#	5	17 82
# DAYS LE 0	1	0	0	0	0	0	0	0	0	0	0	0	0 0
2. PRECIPITATION (INCHES)													
MAXIMUM		*	*	*	*	*	*	*	*	*	*	*	*
MEAN	2	1.3	1.3	1.8	2.0	2.8	5.8	8.3	7.2	8.8	3.1	2.6	1.6 46.8
MINIMUM		*	*	*	*	*	*	*	*	*	*	*	*
MAX 24 HR		*	*	*	*	*	*	*	*	*	*	*	*
# DAYS W/PRECIP	1	6	7	9	8	9	13	16	15	10	7	6	6 110
# DAYS GE 0.5		*	*	*	*	*	*	*	*	*	*	*	*
3. SNOWFALL (INCHES)													
MEAN		*	*	*	*	*	*	*	*	*	*	*	*
MAXIMUM		*	*	*	*	*	*	*	*	*	*	*	*
MAX 24 HR		*	*	*	*	*	*	*	*	*	*	*	*
# DAYS SNOWFALL	1	5	6	4	0	0	0	0	0	0	0	3	18
# DAYS GE 1.5		*	*	*	*	*	*	*	*	*	*	*	*
4. MEAN RELATIVE HUMIDITY (%) / VAPOR PRESSURE (IN HG) / DEWPOINT (F)													
RH (6 LST)	1	59	64	69	69	74	84	89	89	84	73	65	61 73
RH (15 LST)	1	50	56	61	55	57	71	79	79	71	60	54	50 62
VAPOR PRESS	1	.10	.12	.17	.24	.35	.52	.70	.73	.53	.34	.21	.13 .34
DEWPOINT	1	15	18	28	37	48	59	68	69	59	47	32	21 42
5. SURFACE WINDS 16 PT/KTS / 99.95% HIGHEST PRESSURE ALTITUDE (FEET)													
FVLG DRCTN	1	\$NW	\$NW	\$SE	\$SE	\$SE	\$SE	\$SE	\$SE	\$SE	\$SE	\$SE	\$SE
MEAN SPEED													
(FVLG DRCTN)	1	7	7	5	6	5	4	4	4	4	4	4	5
MEAN SPEED													
(ALL OBS)	1	5	5	5	6	5	4	3	3	4	4	5	5
MAX PEAK GUST	1	*	*	*	*	*	*	*	*	*	*	*	*
PRESSURE ALT	1	441	441	616	931	785	817	732	1032	682	748	457	451 1032
6. MEAN CLOUD COVER (8THS) / THUNDERSTORMS / FOG / BLOWING SAND & DUST (BNBD)													
CLD COVER	1	2	3	4	4	4	6	6	6	5	4	3	3 4
DAYS TSTMS	1	#	0	0	#	1	1	1	1	1	#	#	0 5
DAYS FOG LT 7	1	#	1	3	4	4	6	6	2	1	1	#	1 30
DAYS BNBD LT 7	1	0	0	#	#	#	#	0	0	0	0	0	0 1

OPERATIONAL CLIMATIC DATA SUMMARY

STATION: CHANGJON, NORTH KOREA
 LOCATION: 3844N 12811E
 PREPARED BY: USAFETAC/DOC, DEC 1993

STATION #: 470610
 ELEVATION (FEET): 115
 PERIOD: 7604-9212

ICAO:
 LST = GMT + 9

7. PERCENTAGE FREQUENCY OF OCCURRENCE (% FREQ) OF CEILING AND/OR VISIBILITY (CIG/VIS) LT 3000/3 STATUTE MILES (MI) (SOURCE NO. 1)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
00-02 LST	9	12	14	17	18	38	38	32	21	12	11	10	19
03-05 LST	11	14	17	18	20	41	45	34	21	12	11	10	21
06-08 LST	9	12	15	22	24	43	48	37	22	12	14	9	22
09-11 LST	11	15	18	19	18	42	44	33	21	13	16	11	22
12-14 LST	10	15	19	20	19	39	44	35	24	15	14	12	22
15-17 LST	13	14	17	20	18	35	41	37	27	16	17	13	22
18-20 LST	12	14	15	18	19	35	39	34	23	16	14	13	21
21-23 LST	10	11	13	18	18	37	39	31	19	12	13	11	19
ALL HOURS	11	13	16	19	19	39	42	34	22	13	14	11	21

8. % FREQ OF CIG/VIS LT 1500/3 MI (SOURCE NO. 1)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
00-02 LST	3	5	5	8	8	21	19	12	5	2	3	2	8
03-05 LST	4	5	6	7	11	20	19	13	6	2	2	2	8
06-08 LST	3	4	6	9	11	22	26	15	5	3	3	2	9
09-11 LST	4	6	8	8	8	18	20	13	6	2	3	2	8
12-14 LST	4	4	8	9	8	17	18	12	6	3	3	2	8
15-17 LST	5	4	8	9	7	15	16	14	8	4	3	3	8
18-20 LST	4	6	7	9	8	16	16	12	6	3	2	3	8
21-23 LST	3	5	6	8	8	19	18	12	5	3	3	4	8
ALL HOURS	4	5	7	8	9	19	19	13	6	3	3	2	8

9. % FREQ OF CIG/VIS LT 1000/2 MI (SOURCE NO. 1)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
00-02 LST	1	3	4	4	5	11	11	5	2	1	1	1	4
03-05 LST	2	3	3	4	5	11	9	5	3	1	1	1	4
06-08 LST	2	3	4	4	7	13	16	7	1	2	1	1	5
09-11 LST	2	4	4	4	3	7	11	5	1	1	1	1	4
12-14 LST	3	3	4	4	3	7	9	5	2	1	#	1	3
15-17 LST	3	3	4	3	4	6	7	5	1	1	1	1	3
18-20 LST	2	3	4	4	4	6	7	5	1	1	1	1	3
21-23 LST	1	3	3	4	6	10	8	7	1	1	1	3	4
ALL HOURS	2	3	4	4	5	9	10	6	1	1	1	1	4

10. % FREQ OF CIG/VIS LT 200/0.5 MI (SOURCE NO. 1)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
00-02 LST	0	#	1	1	2	3	1	#	0	0	0	0	1
03-05 LST	#	#	1	1	2	2	1	0	#	0	#	0	1
06-08 LST	0	1	1	1	3	4	4	1	0	#	#	0	1
09-11 LST	#	1	#	#	1	2	1	0	0	0	#	0	1
12-14 LST	0	0	1	#	#	1	1	0	0	0	0	0	#
15-17 LST	0	1	1	#	#	1	#	#	#	0	#	#	#
18-20 LST	#	#	#	#	#	1	#	0	#	0	0	0	#
21-23 LST	0	#	1	1	1	2	1	#	0	0	0	#	#
ALL HOURS	#	#	1	1	1	2	1	#	#	#	#	#	1

OPERATIONAL CLIMATIC DATA SUMMARY

STATION: CHANGJON, NORTH KOREA
 LOCATION: 3844N 12811E
 PREPARED BY: USAFETAC/DOC, DEC 1993

STATION #: 470610
 ELEVATION (FEET): 115
 PERIOD: 7604-9212

ICAO:
 LST = GMT + 9

11. PERCENTAGE FREQUENCY OF OCCURRENCE (% FREQ) OF THUNDERSTORMS:

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
00-02 LST	#	0	0	0	#	#	#	0	0	0	0	0	#
03-05 LST	0	0	0	0	#	0	1	#	#	0	0	0	#
06-08 LST	0	0	0	0	0	1	#	1	#	0	0	0	#
09-11 LST	0	0	0	0	#	0	1	#	0	#	0	0	#
12-14 LST	0	0	0	#	#	#	1	#	1	#	#	0	#
15-17 LST	0	0	0	#	1	0	1	1	#	#	0	0	#
18-20 LST	0	0	0	#	1	1	1	#	1	#	0	0	#
21-23 LST	0	0	0	#	#	#	1	#	#	0	0	0	#
ALL HOURS	#	0	0	#	#	#	1	#	#	#	#	0	#

12. % FREQ RAIN AND/OR DRIZZLE:

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
00-02 LST	1	4	5	10	12	18	17	19	12	7	6	5	10
03-05 LST	1	3	5	9	12	21	21	21	12	7	7	4	10
06-08 LST	1	4	6	10	11	19	22	22	12	7	9	4	11
09-11 LST	2	3	7	9	10	16	23	21	13	7	8	6	10
12-14 LST	3	3	5	10	10	17	21	17	12	8	9	5	10
15-17 LST	2	3	6	9	9	17	21	19	13	9	8	6	10
18-20 LST	1	3	6	9	10	18	22	18	13	9	7	6	10
21-23 LST	1	3	5	10	10	18	20	19	12	7	7	5	10
ALL HOURS	2	3	6	9	11	18	21	19	12	8	8	5	10

13. % FREQ SNOW AND/OR ICE PELLETS:

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
00-02 LST	6	7	5	#	0	0	0	0	0	0	#	3	2
03-05 LST	6	7	5	0	0	0	0	0	0	0	0	2	2
06-08 LST	6	6	4	0	0	0	0	0	0	0	#	2	2
09-11 LST	6	9	6	#	0	0	0	0	0	0	1	3	2
12-14 LST	7	9	7	0	0	0	0	0	0	0	#	3	2
15-17 LST	7	9	6	#	0	0	#	0	0	#	#	4	2
18-20 LST	7	9	4	0	0	0	0	0	0	0	#	4	2
21-23 LST	5	6	3	#	0	0	0	0	0	0	#	3	2
ALL HOURS	6	8	5	#	0	0	#	0	0	#	#	3	2

14. % FREQ OF SURFACE WIND SPEEDS GT 25 KTS. (INCLUDING GUSTS):

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
00-02 LST	0	0	1	3	2	1	#	0	0	1	0	#	1
03-05 LST	#	#	#	2	2	#	0	0	0	#	#	1	1
06-08 LST	1	#	#	1	2	#	0	#	0	#	#	1	1
09-11 LST	#	#	#	2	1	0	0	#	0	#	#	#	#
12-14 LST	#	0	#	2	2	1	#	#	0	#	#	1	1
15-17 LST	1	#	#	2	2	#	#	#	0	#	#	1	1
18-20 LST	0	1	#	3	1	#	0	0	0	#	0	0	#
21-23 LST	0	#	#	2	2	#	#	0	#	#	#	#	1
ALL HOURS	#	#	#	2	2	#	#	#	#	#	#	#	1

OPERATIONAL CLIMATIC DATA SUMMARY

STATION: CHANGJON, NORTH KOREA
 LOCATION: 3844N 12811E
 PREPARED BY: USAFETAC/DOC, DEC 1993

STATION #: 470610
 ELEVATION (FEET): 115
 PERIOD: 7604-9212

ICAO:
 LST = GMT + 9

15. % FREQ OF CEILING AND/OR VISIBILITY (CIG/VIS) LT 800/2 MI:

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
00-02 LST	1	3	4	4	5	11	11	5	2	1	1	1	4
03-05 LST	2	3	3	4	5	11	9	5	3	1	1	1	4
06-08 LST	2	3	4	4	7	13	16	7	1	2	1	1	5
09-11 LST	2	4	4	4	3	7	11	5	1	1	1	1	4
12-14 LST	3	3	4	4	3	7	9	5	2	1	#	1	3
15-17 LST	3	3	4	3	4	6	7	5	1	1	1	1	3
18-20 LST	2	3	4	4	4	6	7	5	1	1	1	1	3
21-23 LST	1	3	3	4	6	10	8	7	1	1	1	3	4
ALL HOURS	2	3	4	4	5	9	10	6	1	1	1	1	4

16. % FREQ OF CIG/VIS LT 500/1.5 MI:

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
00-02 LST	1	2	2	2	3	5	6	2	0	#	0	0	2
03-05 LST	1	2	3	2	3	6	5	2	#	#	#	#	2
06-08 LST	1	2	2	3	5	8	10	2	#	1	#	0	3
09-11 LST	1	3	2	3	2	4	5	2	0	#	#	#	2
12-14 LST	1	2	2	2	2	3	3	3	#	0	0	0	2
15-17 LST	1	2	3	2	2	3	2	3	1	#	#	#	2
18-20 LST	1	2	2	2	1	3	3	2	#	#	#	#	1
21-23 LST	1	3	2	2	2	4	4	2	0	#	#	2	2
ALL HOURS	1	2	2	2	2	5	5	2	#	#	#	#	2

17. % FREQ OF CIG/VIS LT 300/1 MI:

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
00-02 LST	0	#	1	1	2	3	3	#	0	#	0	0	1
03-05 LST	#	#	1	1	2	3	2	0	#	0	#	0	1
06-08 LST	#	1	1	1	4	5	6	1	0	#	#	0	2
09-11 LST	#	1	1	1	1	2	2	0	0	#	#	0	1
12-14 LST	0	#	2	#	1	1	1	#	0	0	0	0	#
15-17 LST	0	1	1	1	1	1	1	#	#	0	#	#	#
18-20 LST	#	#	1	#	1	1	1	0	#	#	0	#	#
21-23 LST	0	1	1	1	1	2	1	#	0	0	#	1	1
ALL HOURS	#	1	1	1	1	2	2	#	#	#	#	#	1

18. % FREQ OF CIG/VIS LT 100/.25 MI:

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
00-02 LST	0	#	#	#	1	1	#	0	0	0	0	0	#
03-05 LST	#	0	#	#	#	1	#	0	#	0	#	0	#
06-08 LST	0	#	#	#	1	1	1	#	0	#	#	0	1
09-11 LST	0	1	0	#	#	1	#	0	0	0	#	0	#
12-14 LST	0	0	0	0	#	#	0	0	0	0	0	0	#
15-17 LST	0	#	0	#	0	#	0	#	#	0	#	#	#
18-20 LST	#	0	#	0	#	#	0	0	#	0	0	0	#
21-23 LST	0	0	0	#	#	#	#	0	0	0	0	#	#
ALL HOURS	#	#	#	#	#	1	#	#	#	#	#	#	#

SOURCE(S): 1. USAFETAC DATSAV2 SURFACE, APR 76 - DEC 92, 3 HOURLY OBS.
 2. NATIONAL INTELLIGENCE SURVEY, JAN 68, 9 YEARS OF RECORD.

REMARKS: * = DATA NOT AVAILABLE # = LT 0.5 DAY, OR 0.05 INCH, OR 0.5%, AS APPLICABLE
 \$ = % CALM GT PVLGN DRCTN
 ‡ = BASED ONLY ON AVAILABLE DATA, I.E. LT 24 HRS/DAY, OR LT 12 MONTH/YR
 ANNUAL TOTALS MAY NOT EQUAL THE SUM OF MONTHLY TOTALS DUE TO ROUNDING

OPERATIONAL CLIMATIC DATA SUMMARY

STATION: CHONGJIN, NORTH KOREA
 LOCATION: 4147N 12949E
 PREPARED BY: USAFETAC/DOC, DEC 1993

STATION #: 470080
 ELEVATION (FEET): 141
 PERIOD: 7301-9212

ICAO:
 LST = GMT + 9

SOURCE NO.	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
1. TEMPERATURE (F)													
EXTREME MAX	1	48	48	61	79	85	91	93	94	90	75	66	53 94
MEAN DAILY MAX	1	28	30	39	50	60	65	72	76	70	59	45	33 52
MEAN	1	22	25	34	45	54	60	68	71	63	52	38	27 47
MEAN DAILY MIN	1	15	18	28	38	48	56	64	66	56	44	31	20 40
EXTREME MIN	1	-6	1	7	25	34	43	49	50	39	22	11	0 -6
# DAYS GE 90	1	0	0	0	0	0	#	#	#	#	0	0	0 1
# DAYS LE 32	1	31	28	25	3	0	0	0	0	0	2	16	30 134
# DAYS LE 0	1	#	0	0	0	0	0	0	0	0	0	#	0
2. PRECIPITATION (INCHES)													
MAXIMUM		*	*	*	*	*	*	*	*	*	*	*	*
MEAN	2	.4	.3	.6	.8	2.2	2.7	4.6	6.2	4.4	1.8	1.0	.6 25.6
MINIMUM		*	*	*	*	*	*	*	*	*	*	*	*
MAX 24 HR	2	.8	.3	.6	.8	1.0	.9	1.9	12.0	2.2	1.5	1.1	.8 12.0
# DAYS W/PRECIP	1	7	7	6	8	11	18	18	14	9	5	7	9 119
# DAYS GE 0.5		*	*	*	*	*	*	*	*	*	*	*	*
3. SNOWFALL (INCHES)													
MEAN		*	*	*	*	*	*	*	*	*	*	*	*
MAXIMUM		*	*	*	*	*	*	*	*	*	*	*	*
MAX 24 HR		*	*	*	*	*	*	*	*	*	*	*	*
# DAYS SNOWFALL	1	7	7	4	1	0	0	0	0	0	0	3	8 29
# DAYS GE 1.5		*	*	*	*	*	*	*	*	*	*	*	*
4. MEAN RELATIVE HUMIDITY (%) / VAPOR PRESSURE (IN HG) / DEWPOINT (F)													
RH (6 LST)	1	62	64	68	73	79	90	92	89	82	70	65	64 75
RH (12 LST)	1	54	56	56	59	62	76	80	74	63	52	52	54 62
VAPOR PRESS	1	.08	.09	.13	.20	.29	.45	.61	.65	.45	.26	.15	.10 .29
DEWPOINT	1	9	13	22	33	44	55	64	66	55	38	25	15 37
5. SURFACE WINDS 16 PT/KTS / 99.95% HIGHEST PRESSURE ALTITUDE (FEET)													
PVLG DRCTN	1	\$NW	\$NW	\$NW	\$SE	\$SE	\$E	\$E	\$SE	\$NW	\$NW	\$NW	\$NW
MEAN SPEED													
(PVLG DRCTN)	1	6	7	7	4	4	5	5	4	5	6	6	6 5
MEAN SPEED													
(ALL OBS)	1	3	3	3	3	3	2	2	2	2	3	4	3 3
MAX PEAK GUST	1	*	*	*	*	*	*	*	*	*	*	*	*
PRESSURE ALT	1	753	585	664	903	1064	1045	824	1090	856	947	762	636 1090
6. MEAN CLOUD COVER (8THS) / THUNDERSTORMS / FOG / BLOWING SAND & DUST (BNBD)													
CLD COVER	1	3	3	4	5	5	6	7	6	4	3	3	4
DAYS TSTMS	1	#	0	0	#	#	#	1	#	#	#	0	# 3
DAYS FOG LT 7	1	3	3	6	10	12	18	18	11	5	3	2	3 94
DAYS BNBD LT 7	1	#	#	#	#	#	#	#	#	#	#	#	# 2

OPERATIONAL CLIMATIC DATA SUMMARY

STATION: CHONGJIN, NORTH KOREA
 LOCATION: 4147N 12949E
 PREPARED BY: USAFETAC/DOC, DEC 1993

STATION #: 470080
 ELEVATION (FEET): 141
 PERIOD: 7301-9212

ICAO:
 LST = GMT + 9

7. PERCENTAGE FREQUENCY OF OCCURRENCE (% FREQ) OF CEILING AND/OR VISIBILITY (CIG/VIS) LT 3000/3 STATUTE MILES (MI) (SOURCE NO. 1)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
00-02 LST	22	21	23	31	40	64	66	53	34	25	27	26	36
03-05 LST	19	19	19	30	43	66	66	51	28	24	23	26	35
06-08 LST	31	33	43	57	72	84	88	72	55	42	38	38	54
09-11 LST	43	48	47	47	47	69	74	59	47	45	47	48	52
12-14 LST	22	22	22	30	35	60	57	42	25	21	26	30	33
15-17 LST	18	21	20	30	38	54	55	40	27	20	26	25	31
18-20 LST	34	28	26	34	42	62	60	50	36	30	36	38	40
21-23 LST	28	25	27	35	43	66	63	52	37	29	33	32	39
ALL HOURS	27	27	28	37	45	66	66	52	36	30	32	33	40

8. % FREQ OF CIG/VIS LT 1500/3 MI (SOURCE NO. 1)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
00-02 LST	6	6	9	17	25	47	42	22	9	6	5	7	17
03-05 LST	4	5	7	15	23	49	45	22	8	4	3	5	16
06-08 LST	17	21	30	47	58	76	75	51	37	27	20	22	40
09-11 LST	29	35	38	35	32	56	59	34	28	30	29	32	36
12-14 LST	10	8	11	15	21	44	40	20	7	5	6	12	17
15-17 LST	2	6	6	15	18	35	34	18	7	3	4	5	13
18-20 LST	13	11	11	18	22	43	41	21	9	9	9	15	18
21-23 LST	11	9	12	20	25	47	41	20	10	10	8	11	19
ALL HOURS	12	13	16	23	28	50	47	26	14	12	11	14	22

9. % FREQ OF CIG/VIS LT 1000/2 MI (SOURCE NO. 1)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
00-02 LST	1	1	4	8	12	20	19	7	2	1	1	1	6
03-05 LST	1	1	4	7	10	24	20	7	2	1	1	1	7
06-08 LST	8	11	21	34	46	60	55	33	24	14	9	11	27
09-11 LST	18	25	28	22	21	36	34	13	14	19	15	18	22
12-14 LST	3	3	4	8	11	21	17	4	1	2	3	3	7
15-17 LST	#	2	3	6	10	16	15	5	1	1	1	2	5
18-20 LST	3	3	5	10	12	21	19	7	2	3	3	3	8
21-23 LST	2	2	7	9	13	24	18	5	2	1	2	3	7
ALL HOURS	5	6	9	13	17	28	25	10	6	5	4	5	11

10. % FREQ OF CIG/VIS LT 200/0.5 MI (SOURCE NO. 1)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
00-02 LST	0	0	2	4	4	6	3	1	0	#	0	0	2
03-05 LST	0	0	1	3	4	9	5	1	#	#	0	#	2
06-08 LST	#	1	2	8	16	24	16	4	1	1	#	1	6
09-11 LST	1	5	7	6	7	9	7	1	#	0	2	1	4
12-14 LST	1	0	1	3	1	4	3	#	0	0	#	0	1
15-17 LST	#	0	1	2	2	3	2	1	0	#	#	#	1
18-20 LST	0	1	2	3	4	4	3	1	0	#	0	#	2
21-23 LST	#	#	3	4	4	6	3	1	#	0	0	#	2
ALL HOURS	#	1	2	4	5	8	5	1	#	#	#	#	2

OPERATIONAL CLIMATIC DATA SUMMARY

STATION: CHONGJIN, NORTH KOREA

LOCATION: 4147N 12949E

PREPARED BY: USAFETAC/DOC, DEC 1993

STATION #: 470080

ELEVATION (FEET): 141

PERIOD: 7301-9212

ICAO:

LST = GMT + 9

11. PERCENTAGE FREQUENCY OF OCCURRENCE (% FREQ) OF THUNDERSTORMS:

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
00-02 LST	0	0	0	0	0	0	#	0	#	0	0	0	#
03-05 LST	0	0	0	0	0	0	#	0	#	#	0	0	#
06-08 LST	0	0	0	0	1	#	0	0	#	0	0	0	#
09-11 LST	0	0	0	0	0	0	0	0	0	#	0	#	#
12-14 LST	0	0	0	0	0	#	#	0	0	0	0	0	#
15-17 LST	#	0	0	0	#	#	#	1	#	#	0	#	#
18-20 LST	#	0	0	#	#	1	1	#	#	0	0	0	#
21-23 LST	0	0	0	0	0	#	1	#	#	#	0	#	#
ALL HOURS	#	0	0	#	#	#	#	#	#	#	0	#	#

12. % FREQ RAIN AND/OR DRIZZLE:

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
00-02 LST	#	1	2	7	11	26	23	17	9	5	5	2	9
03-05 LST	#	1	2	8	12	24	22	15	7	5	4	2	8
06-08 LST	0	1	3	10	11	26	25	16	9	4	5	1	9
09-11 LST	#	1	3	11	12	24	26	15	10	5	3	2	9
12-14 LST	0	1	3	7	10	17	19	12	8	4	3	1	7
15-17 LST	#	1	4	8	11	17	19	11	9	4	4	1	7
18-20 LST	0	#	2	8	10	20	20	17	11	6	6	2	8
21-23 LST	#	1	3	9	11	22	24	14	8	4	6	1	9
ALL HOURS	#	1	3	8	11	22	22	15	9	5	5	1	8

13. % FREQ SNOW AND/OR ICE PELLETS:

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
00-02 LST	7	7	4	1	0	0	0	0	0	0	2	8	2
03-05 LST	7	5	4	1	0	0	0	0	0	0	2	7	2
06-08 LST	6	5	3	1	0	0	0	0	0	#	2	7	2
09-11 LST	10	9	5	2	0	0	0	0	0	#	3	9	3
12-14 LST	11	11	6	1	0	0	0	0	0	0	4	10	4
15-17 LST	9	10	7	1	0	0	0	0	0	0	4	10	3
18-20 LST	10	11	6	1	0	0	0	0	0	0	4	10	3
21-23 LST	8	8	5	1	0	0	0	0	0	#	2	7	3
ALL HOURS	8	8	5	1	0	0	0	0	0	#	3	8	3

14. % FREQ OF SURFACE WIND SPEEDS GT 25 KTS. (INCLUDING GUSTS):

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
00-02 LST	#	1	1	#	#	0	#	0	0	0	#	1	#
03-05 LST	#	1	0	#	0	0	#	#	#	#	1	#	#
06-08 LST	1	#	0	#	0	1	0	0	0	0	#	1	#
09-11 LST	#	1	#	#	#	#	0	#	0	#	1	#	#
12-14 LST	#	1	1	0	#	0	1	0	1	0	1	#	#
15-17 LST	#	1	1	0	#	0	1	#	#	#	#	#	#
18-20 LST	0	1	1	#	#	0	0	#	#	#	#	#	#
21-23 LST	#	1	#	#	#	0	0	#	0	#	#	#	#
ALL HOURS	#	1	#	#	#	#	#	#	#	#	#	#	#

OPERATIONAL CLIMATIC DATA SUMMARY

STATION: CHONGJIN, NORTH KOREA
LOCATION: 4147N 12949E
PREPARED BY: USAFETAC/DOC, DEC 1993

STATION #: 470080
ELEVATION (FEET): 141
PERIOD: 7301-9212

ICAO:
LST = GMT + 9

15. % FREQ OF CEILING AND/OR VISIBILITY (CIG/VIS) LT 800/2 MI:

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
00-02 LST	1	1	4	8	12	20	19	7	2	1	1	1	6
03-05 LST	1	1	4	7	10	24	20	7	2	1	1	1	7
06-08 LST	8	11	21	34	46	60	55	33	24	14	9	11	27
09-11 LST	18	25	28	22	21	36	34	13	14	19	15	18	22
12-14 LST	3	3	4	8	11	21	17	4	1	2	3	3	7
15-17 LST	#	2	3	6	10	16	15	5	1	1	1	2	5
18-20 LST	3	3	5	10	12	21	19	7	2	3	3	3	8
21-23 LST	2	2	7	9	13	24	18	5	2	1	2	3	7
ALL HOURS	5	6	9	13	17	28	25	10	6	5	4	5	11

16. % FREQ OF CIG/VIS LT 500/1.5 MI:

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
00-02 LST	#	1	4	6	10	14	10	3	1	#	#	1	4
03-05 LST	0	1	3	6	9	18	11	5	1	0	1	0	5
06-08 LST	7	10	19	31	42	56	46	28	20	11	7	9	24
09-11 LST	16	24	25	19	18	28	22	9	12	17	12	15	18
12-14 LST	2	3	4	6	7	14	9	3	1	1	2	3	5
15-17 LST	#	1	2	4	7	10	7	3	1	1	1	2	3
18-20 LST	2	2	4	7	10	12	8	4	1	2	2	3	5
21-23 LST	2	2	5	7	12	16	8	3	1	0	1	2	5
ALL HOURS	4	5	8	11	14	21	15	7	5	4	3	4	9

17. % FREQ OF CIG/VIS LT 300/1 MI:

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
00-02 LST	0	#	3	5	6	10	6	2	#	#	0	0	3
03-05 LST	0	#	2	5	6	13	8	3	#	#	#	#	3
06-08 LST	3	3	8	19	32	41	32	14	10	5	3	3	14
09-11 LST	8	13	15	13	11	17	13	4	4	5	5	6	9
12-14 LST	1	1	2	5	4	8	5	1	0	0	#	1	2
15-17 LST	#	#	2	3	4	6	3	1	0	#	#	1	2
18-20 LST	#	1	3	4	7	7	4	2	#	1	1	1	3
21-23 LST	0	1	4	5	9	11	5	2	1	#	1	#	3
ALL HOURS	2	2	5	7	10	14	10	4	2	2	1	2	5

18. % FREQ OF CIG/VIS LT 100/.25 MI:

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
00-02 LST	0	0	1	1	2	3	1	0	0	0	0	0	1
03-05 LST	0	0	0	1	2	5	2	#	0	0	0	0	1
06-08 LST	0	#	1	3	5	13	7	1	0	#	#	#	3
09-11 LST	#	1	2	2	3	3	3	#	0	#	1	#	1
12-14 LST	0	0	1	#	1	1	1	#	0	0	0	0	#
15-17 LST	#	0	#	#	0	1	0	0	0	#	0	0	#
18-20 LST	0	0	1	1	2	1	1	#	0	0	0	0	#
21-23 LST	#	0	2	1	1	3	1	#	0	0	0	#	1
ALL HOURS	#	#	1	1	2	4	2	#	0	#	#	#	1

SOURCE(S): 1. USAFETAC DATSAV2 SURFACE, JAN 73 - DEC 92, 3 HOURLY OBS.
2. NATIONAL INTELLIGENCE SURVEY, JAN 68, 6-27 YEARS OF RECORD.

REMARKS: * = DATA NOT AVAILABLE # = LT 0.5 DAY, OR 0.05 INCH, OR 0.5%, AS APPLICABLE
\$ = % CALM GT PVLGN DRCTN
‡ = BASED ONLY ON AVAILABLE DATA, I.E. LT 24 HRS/DAY, OR LT 12 MONTH/YR
ANNUAL TOTALS MAY NOT EQUAL THE SUM OF MONTHLY TOTALS DUE TO ROUNDING

OPERATIONAL CLIMATIC DATA SUMMARY

STATION: HAMHUNG, NORTH KOREA
 LOCATION: 3956N 12733E
 PREPARED BY: USAFETAC/DOC, DEC 1993

STATION #: 470410
 ELEVATION (FEET): 125
 PERIOD: 7301-9212

ICAO:
 LST = GMT + 9

SOURCE NO.	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
1. TEMPERATURE (F)													
EXTREME MAX	1	55	61	69	83	93	95	99	98	93	85	75	61 99
MEAN DAILY MAX	1	33	36	45	58	69	72	77	79	73	63	49	38 58
MEAN	1	24	28	37	50	60	66	72	73	64	54	40	29 50
MEAN DAILY MIN	1	14	19	29	40	50	59	67	67	56	44	32	20 41
EXTREME MIN	1	-10	-8	9	20	36	45	50	54	39	23	9	-3 -10
# DAYS GE 90	1	0	0	0	0	#	1	2	3	#	0	0	0 6
# DAYS LE 32	1	31	28	22	3	0	0	0	0	0	2	16	28 130
# DAYS LE 0	1	1	#	0	0	0	0	0	0	0	0	0	# 2
2. PRECIPITATION (INCHES)													
MAXIMUM	2	.9	.9	2.2	3.2	3.4	4.8	13.8	22.4	5.4	5.4	2.7	1.0 *
MEAN	2	.5	.6	.9	1.6	2.4	3.3	7.9	8.1	4.3	1.4	1.1	.5 32.6
MINIMUM		*	*	*	*	*	*	*	*	*	*	*	* *
MAX 24 HR	2	.4	.3	1.3	2.2	1.3	2.0	5.8	7.5	2.4	5.1	1.2	.8 7.5
# DAYS W/PRECIP	1	5	6	7	8	9	14	17	13	9	6	6	6 106
# DAYS GE 0.5		*	*	*	*	*	*	*	*	*	*	*	* *
3. SNOWFALL (INCHES)													
MEAN		*	*	*	*	*	*	*	*	*	*	*	* *
MAXIMUM		*	*	*	*	*	*	*	*	*	*	*	* *
MAX 24 HR		*	*	*	*	*	*	*	*	*	*	*	* *
# DAYS SNOWFALL	1	5	5	3	0	0	0	0	0	0	0	1	4 19
# DAYS GE 1.5		*	*	*	*	*	*	*	*	*	*	*	* *
4. MEAN RELATIVE HUMIDITY (%) / VAPOR PRESSURE (IN HG) / DEWPOINT (F)													
RH (6 LST)	1	65	69	72	76	80	90	93	93	89	81	74	69 79
RH (15 LST)	1	44	47	46	45	48	65	73	69	59	49	48	45 54
VAPOR PRESS	1	.08	.10	.14	.21	.32	.50	.67	.69	.48	.29	.17	.10 .31
DEWPOINT	1	10	14	23	34	46	58	66	67	56	42	27	16 38
5. SURFACE WINDS 16 PT/KTS / 99.95% HIGHEST PRESSURE ALTITUDE (FEET)													
PVLG DRCTN	1	\$NW	\$NW	\$S	\$SW	\$S	\$S	\$S	\$S	\$NE	\$NE	\$NE	\$NE
MEAN SPEED													
(PVLG DRCTN)	1	11	10	6	8	7	6	5	5	5	5	5	7
MEAN SPEED													
(ALL OBS)	1	6	6	5	5	5	4	3	3	4	5	5	5
MAX PEAK GUST	1	*	*	*	*	*	*	*	*	*	*	*	*
PRESSURE ALT	1	451	423	592	931	852	865	780	1026	657	770	470	498 1026
6. MEAN CLOUD COVER (8THS) / THUNDERSTORMS / FOG / BLOWING SAND & DUST (BNBD)													
CLD COVER	1	2	3	4	4	5	6	6	6	5	3	3	3 4
DAYS TSTMS	1	#	0	#	#	#	1	1	1	#	#	#	0 4
DAYS FOG LT 7	1	5	4	7	8	7	13	16	15	10	6	6	6 101
DAYS BNBD LT 7	1	#	#	#	#	#	#	#	#	#	#	#	# 2

OPERATIONAL CLIMATIC DATA SUMMARY

STATION: NAMKONG, NORTH KOREA
 LOCATION: 3956N 12733E
 PREPARED BY: USAFETAC/DOC, DEC 1993

STATION #: 470410
 ELEVATION (FEET): 125
 PERIOD: 7301-9212

ICAO:
 LST = GMT + 9

7. PERCENTAGE FREQUENCY OF OCCURRENCE (% FREQ) OF CEILING AND/OR VISIBILITY (CIG/VIS) LT 3000/3 STATUTE MILES (MI) (SOURCE NO. 1)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
00-02 LST	14	17	20	21	30	52	59	49	32	22	19	14	29
03-05 LST	12	18	17	24	28	53	64	54	32	22	19	16	30
06-08 LST	15	17	26	33	37	62	74	65	46	29	22	18	37
09-11 LST	26	28	30	33	35	57	66	53	36	29	33	27	38
12-14 LST	26	24	27	32	36	54	63	51	37	28	28	29	36
15-17 LST	20	21	25	30	31	49	53	49	35	26	23	21	32
18-20 LST	22	23	25	30	35	54	56	48	31	27	25	23	33
21-23 LST	17	17	22	23	31	54	62	46	31	23	21	17	30
ALL HOURS	19	21	24	28	33	54	62	52	35	26	24	20	33

8. % FREQ OF CIG/VIS LT 1500/3 MI (SOURCE NO. 1)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
00-02 LST	7	7	10	10	13	21	23	12	6	4	5	5	10
03-05 LST	5	7	7	9	11	23	23	17	9	5	4	5	10
06-08 LST	5	6	12	16	21	36	46	33	18	9	6	7	18
09-11 LST	17	19	20	18	21	35	39	27	12	12	15	17	21
12-14 LST	19	14	16	16	20	33	35	25	14	11	12	19	19
15-17 LST	12	11	11	12	15	24	26	21	13	12	9	13	15
18-20 LST	16	13	11	12	16	24	24	19	9	10	9	12	15
21-23 LST	9	8	11	11	12	23	21	12	7	5	5	7	11
ALL HOURS	11	11	12	13	16	27	30	21	11	9	8	10	15

9. % FREQ OF CIG/VIS LT 1000/2 MI (SOURCE NO. 1)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
00-02 LST	3	4	6	6	6	12	10	4	2	1	2	2	5
03-05 LST	2	4	5	5	5	13	10	7	3	2	2	2	5
06-08 LST	2	4	7	9	11	22	26	19	9	3	3	2	10
09-11 LST	8	11	10	10	13	19	21	12	4	2	5	6	10
12-14 LST	7	7	8	9	9	20	19	14	7	3	4	6	9
15-17 LST	4	3	4	7	6	11	12	9	3	3	3	4	6
18-20 LST	5	5	6	8	8	12	10	7	3	2	2	4	6
21-23 LST	4	5	5	6	6	13	9	4	2	1	2	3	5
ALL HOURS	4	5	6	8	8	15	15	9	4	2	3	3	7

10. % FREQ OF CIG/VIS LT 200/0.5 MI (SOURCE NO. 1)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
00-02 LST	#	1	1	1	2	2	1	1	#	#	1	#	1
03-05 LST	#	1	1	2	1	2	2	1	1	1	1	#	1
06-08 LST	#	1	2	4	2	7	5	5	4	1	1	1	3
09-11 LST	1	2	2	2	2	3	3	2	#	1	1	1	2
12-14 LST	1	1	1	2	1	2	2	2	1	#	#	1	1
15-17 LST	#	#	#	1	1	2	1	1	1	0	0	1	1
18-20 LST	1	#	#	2	1	2	1	1	1	0	#	0	1
21-23 LST	#	#	#	1	2	2	1	0	#	#	#	#	1
ALL HOURS	1	1	1	2	2	3	2	2	1	#	#	1	1

OPERATIONAL CLIMATIC DATA SUMMARY

STATION: HAMHUNG, NORTH KOREA

LOCATION: 3956N 12733E

PREPARED BY: USAFETAC/DOC, DEC 1993

STATION #: 470410

ELEVATION (FEET): 125

PERIOD: 7301-9212

ICAO:

LST = GMT + 9

11. PERCENTAGE FREQUENCY OF OCCURRENCE (% FREQ) OF THUNDERSTORMS:

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
00-02 LST	0	0	0	0	0	#	#	#	#	#	0	0	#
03-05 LST	0	0	0	0	0	#	0	#	0	#	0	0	#
06-08 LST	0	0	#	0	0	#	1	#	#	#	0	0	#
09-11 LST	0	0	0	0	#	#	0	#	0	#	0	0	#
12-14 LST	0	0	0	0	#	0	1	0	#	0	0	0	#
15-17 LST	0	0	0	#	#	1	0	1	#	#	#	0	#
18-20 LST	0	0	0	0	0	1	1	#	0	#	0	0	#
21-23 LST	#	0	#	0	0	1	1	#	1	#	0	0	#
ALL HOURS	#	0	#	#	#	#	#	#	#	#	#	0	#

12. % FREQ RAIN AND/OR DRIZZLE:

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
00-02 LST	#	1	4	9	10	17	21	16	10	5	7	2	8
03-05 LST	#	1	4	8	10	17	20	17	10	5	7	2	8
06-08 LST	#	1	4	8	9	18	24	16	9	5	5	2	9
09-11 LST	#	1	4	9	11	17	25	16	12	6	7	2	9
12-14 LST	1	1	5	10	9	13	20	16	11	6	8	3	9
15-17 LST	1	2	5	10	9	11	19	15	11	6	6	2	8
18-20 LST	#	1	5	9	13	14	19	15	11	6	5	2	8
21-23 LST	1	1	4	9	11	18	23	16	10	6	6	3	9
ALL HOURS	#	1	4	9	10	16	21	16	11	5	6	2	9

13. % FREQ SNOW AND/OR ICE PELLETS:

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
00-02 LST	7	7	3	#	0	0	0	0	0	0	1	5	2
03-05 LST	6	7	3	#	0	0	0	0	0	0	#	4	2
06-08 LST	7	7	4	0	0	0	0	0	0	0	1	4	2
09-11 LST	9	11	6	#	0	0	0	0	0	0	1	5	3
12-14 LST	8	9	6	#	0	0	0	0	0	0	1	5	2
15-17 LST	6	6	4	#	0	0	0	0	0	0	1	5	2
18-20 LST	6	6	3	0	0	0	0	0	0	#	1	4	2
21-23 LST	7	7	3	0	0	0	0	0	0	0	#	3	2
ALL HOURS	7	8	4	#	0	0	0	0	0	#	1	4	2

14. % FREQ OF SURFACE WIND SPEEDS GT 25 KTS. (INCLUDING GUSTS):

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
00-02 LST	1	1	1	#	#	0	0	0	#	#	#	0	#
03-05 LST	1	1	1	#	#	0	0	0	#	1	1	0	#
06-08 LST	0	1	#	0	#	0	0	#	#	1	1	1	#
09-11 LST	#	1	#	1	#	#	#	#	0	1	1	#	#
12-14 LST	1	1	1	2	1	#	0	0	1	1	1	1	1
15-17 LST	2	1	1	2	1	#	#	#	#	#	2	2	1
18-20 LST	1	#	1	2	1	0	0	0	1	#	2	1	1
21-23 LST	2	1	1	#	1	0	0	#	#	1	1	2	1
ALL HOURS	1	1	1	1	1	#	#	#	#	1	1	1	1

OPERATIONAL CLIMATIC DATA SUMMARY

STATION: HAMHEUNG, NORTH KOREA
 LOCATION: 3956N 12733E
 PREPARED BY: USAFETAC/DOC, DEC 1993

STATION #: 470410
 ELEVATION (FEET): 125
 PERIOD: 7301-9212

ICAO:
 LST = GMT + 9

15. % FREQ OF CEILING AND/OR VISIBILITY (CIG/VIS) LT 800/2 MI:

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
00-02 LST	3	4	6	6	6	12	10	4	2	1	2	2	5
03-05 LST	2	4	5	5	5	13	10	7	3	2	2	2	5
06-08 LST	2	4	7	9	11	22	26	19	9	3	3	2	10
09-11 LST	8	11	10	10	13	19	21	12	4	2	5	6	10
12-14 LST	7	7	8	9	9	20	19	14	7	3	4	6	9
15-17 LST	4	3	4	7	6	11	12	9	3	3	3	4	6
18-20 LST	5	5	6	8	8	12	10	7	3	2	2	4	6
21-23 LST	4	5	5	6	6	13	9	4	2	1	2	3	5
ALL HOURS	4	5	6	8	8	15	15	9	4	2	3	3	7

16. % FREQ OF CIG/VIS LT 500/1.5 MI:

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
00-02 LST	2	3	4	5	5	9	6	2	1	1	1	1	4
03-05 LST	2	3	3	5	4	10	7	5	3	2	1	1	4
06-08 LST	1	3	5	8	8	19	22	16	7	3	2	2	8
09-11 LST	6	8	7	8	10	16	17	8	3	2	3	4	8
12-14 LST	5	6	6	7	8	16	15	10	6	2	3	4	7
15-17 LST	3	3	3	5	5	8	9	6	3	2	2	2	4
18-20 LST	3	4	4	7	6	9	9	5	2	1	2	3	4
21-23 LST	2	4	4	6	5	10	7	3	2	1	1	2	4
ALL HOURS	3	4	5	6	6	12	11	7	3	2	2	2	5

17. % FREQ OF CIG/VIS LT 300/1 MI:

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
00-02 LST	1	2	2	2	3	5	3	1	#	#	1	1	2
03-05 LST	1	2	2	3	3	4	3	2	1	1	1	1	2
06-08 LST	1	1	3	6	5	11	10	9	5	2	1	1	5
09-11 LST	2	4	4	5	6	7	8	4	1	1	2	2	4
12-14 LST	2	3	2	4	4	8	7	4	2	1	2	2	3
15-17 LST	1	1	1	2	2	4	4	2	1	1	1	1	2
18-20 LST	1	1	2	4	3	5	4	1	2	#	1	2	2
21-23 LST	1	2	2	2	3	6	2	1	1	#	1	1	2
ALL HOURS	1	2	2	4	4	6	5	3	2	1	1	1	3

18. % FREQ OF CIG/VIS LT 100/.25 MI:

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
00-02 LST	#	1	#	#	0	0	0	#	0	0	#	#	#
03-05 LST	#	1	1	1	1	1	1	1	1	#	#	#	1
06-08 LST	#	#	1	2	1	3	3	2	2	1	#	#	1
09-11 LST	1	1	1	1	1	1	#	0	#	#	#	1	1
12-14 LST	#	#	1	1	#	1	0	#	#	#	0	#	#
15-17 LST	#	#	0	1	0	1	#	0	#	0	0	#	#
18-20 LST	#	0	0	1	#	#	#	#	#	0	#	0	#
21-23 LST	0	#	#	#	#	0	#	#	0	#	0	#	#
ALL HOURS	#	#	#	1	#	1	1	1	#	#	#	#	#

SOURCE(S): 1. USAFETAC DATSAV2 SURFACE, JAN 73 - DEC 92, 3 HOURLY OBS.
 2. NATIONAL INTELLIGENCE SURVEY, JAN 68, 6-28 YEARS OF RECORD.

REMARKS: * = DATA NOT AVAILABLE # = LT 0.5 DAY, OR 0.05 INCH, OR 0.5%, AS APPLICABLE
 \$ = % CALM GT PVLGN DRCTN
 ‡ = BASED ONLY ON AVAILABLE DATA, I.E. LT 24 HRS/DAY, OR LT 12 MONTH/YR
 ANNUAL TOTALS MAY NOT EQUAL THE SUM OF MONTHLY TOTALS DUE TO ROUNDING

OPERATIONAL CLIMATIC DATA SUMMARY

STATION: HUICHON, NORTH KOREA
 LOCATION: 4010N 12615E
 PREPARED BY: USAFETAC/DOC, DEC 1993

STATION #: 470390
 ELEVATION (FEET): 509
 PERIOD: 7604-9212

ICAO:
 LST = GMT + 9

SOURCE NO.	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
1. TEMPERATURE (F)													
EXTREME MAX	1	47	54	66	84	95	93	99	100	88	84	68	52 100
MEAN DAILY MAX	1	26	32	45	59	70	78	81	82	74	62	44	31 57
MEAN	1	15	22	35	48	59	68	73	73	62	49	34	21 47
MEAN DAILY MIN	1	3	10	25	37	48	59	67	66	53	38	25	11 37
EXTREME MIN	1	-21	-11	1	20	34	43	50	48	31	20	3	-15 -21
# DAYS GE 90	1	0	0	0	0	1	2	4	0	0	0	0	7
# DAYS LE 32	1	31	28	27	9	0	0	0	0	7	24	30	156
# DAYS LE 0	1	14	5	0	0	0	0	0	0	0	0	4	23
2. PRECIPITATION (INCHES)													
MAXIMUM	2	2.1	1.0	3.5	3.4	7.6	7.4	33.7	18.4	20.1	6.6	4.7	1.6 *
MEAN	2	.7	.6	1.3	2.2	3.5	4.6	15.5	11.9	5.4	2.4	1.5	.9 50.5
MINIMUM	2	#	.2	.4	1.0	1.5	1.7	2.0	6.6	1.3	.9	.2	.1 *
MAX 24 HR	2	.9	.4	1.3	1.7	2.0	3.8	8.2	8.9	4.6	4.4	2.0	.8 8.9
# DAYS W/PRECIP	1	11	8	8	11	11	12	17	13	8	7	9	10 123
# DAYS GE 0.5		*	*	*	*	*	*	*	*	*	*	*	*
3. SNOWFALL (INCHES)													
MEAN		*	*	*	*	*	*	*	*	*	*	*	*
MAXIMUM		*	*	*	*	*	*	*	*	*	*	*	*
MAX 24 HR		*	*	*	*	*	*	*	*	*	*	*	*
# DAYS SNOWFALL	1	11	8	5	1	0	0	0	0	0	4	9	36
# DAYS GE 1.5		*	*	*	*	*	*	*	*	*	*	*	*
4. MEAN RELATIVE HUMIDITY (%) / VAPOR PRESSURE (IN HG) / DEWPOINT (F)													
RH (6 LST)	1	87	86	84	85	88	93	94	94	95	91	88	87 89
RH (15 LST)	1	54	49	42	40	43	54	68	63	53	46	53	58 52
VAPOR PRESS	1	.07	.09	.13	.21	.33	.52	.70	.69	.45	.27	.16	.10 .31
DEWPOINT	1	8	13	23	34	46	59	67	67	55	40	26	15 38
5. SURFACE WINDS 16 PT/KTS / 99.95% HIGHEST PRESSURE ALTITUDE (FEET)													
PVLG DRCTN	1	\$SW	\$SW	\$SW	\$SW	\$SW	\$SW	\$SW	\$SW	\$SW	\$SW	\$SW	\$SW
MEAN SPEED													
(PVLG DRCTN)	1	4	4	5	5	5	4	4	4	3	4	4	4
MEAN SPEED													
(ALL OBS)	1	1	2	3	3	3	2	2	1	1	2	2	1 2
MAX PEAK GUST	1	*	*	*	*	*	*	*	*	*	*	*	*
PRESSURE ALT	1	770	705	929	1277	1060	1145	1211	1277	966	947	779	863 1277
6. MEAN CLOUD COVER (8THS) / THUNDERSTORMS / FOG / BLOWING SAND & DUST (BNBD)													
CLD COVER	1	3	3	4	5	5	6	6	6	5	4	4	3 4
DAYS TSTMS	1	#	#	#	1	2	3	4	3	1	1	#	0 15
DAYS FOG LT 7	1	7	5	7	8	11	12	14	15	17	14	10	9 130
DAYS BNBD LT 7	1	0	#	#	1	1	#	#	0	#	#	0	0 2

OPERATIONAL CLIMATIC DATA SUMMARY

STATION: **HUICHON, NORTH KOREA**
 LOCATION: 4010N 12615E
 PREPARED BY: USAFETAC/DOC, DEC 1993

STATION #: 470390
 ELEVATION (FEET): 509
 PERIOD: 7604-9212

ICAO:
 LST = GMT + 9

7. PERCENTAGE FREQUENCY OF OCCURRENCE (% FREQ) OF CEILING AND/OR VISIBILITY (CIG/VIS) LT 3000/3 STATUTE MILES (MI) (SOURCE NO. 1)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
00-02 LST	17	14	18	26	30	38	61	45	31	25	34	27	30
03-05 LST	17	15	21	28	35	47	68	53	39	30	34	27	34
06-08 LST	19	16	26	38	47	64	80	72	69	40	37	28	45
09-11 LST	25	20	24	34	37	42	61	49	42	45	46	34	38
12-14 LST	17	17	22	32	35	45	56	41	26	23	35	28	31
15-17 LST	16	20	24	36	36	46	60	40	32	26	33	28	33
18-20 LST	19	18	23	31	33	44	54	41	27	24	32	28	31
21-23 LST	17	13	18	26	27	42	55	39	24	23	29	27	28
ALL HOURS	18	17	22	31	35	46	62	48	36	29	35	28	34

8. % FREQ OF CIG/VIS LT 1500/3 MI (SOURCE NO. 1)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
00-02 LST	6	4	3	7	7	9	14	10	9	5	11	10	8
03-05 LST	4	4	4	10	10	14	23	19	18	12	10	11	12
06-08 LST	6	4	7	15	21	30	37	36	41	20	14	12	20
09-11 LST	9	6	7	9	11	8	14	14	17	23	18	12	12
12-14 LST	6	2	3	5	4	3	10	6	3	3	6	8	5
15-17 LST	4	4	3	4	2	4	8	4	4	3	3	6	4
18-20 LST	4	5	4	5	3	4	8	5	3	3	5	6	4
21-23 LST	5	3	3	7	5	7	12	7	4	5	8	9	6
ALL HOURS	6	4	4	8	8	10	16	13	12	9	9	9	9

9. % FREQ OF CIG/VIS LT 1000/2 MI (SOURCE NO. 1)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
00-02 LST	2	1	1	4	3	3	4	3	3	1	5	4	3
03-05 LST	1	1	1	5	6	5	9	8	9	6	6	4	5
06-08 LST	2	1	2	9	14	20	20	23	31	13	10	5	12
09-11 LST	2	2	3	3	3	4	4	4	8	14	11	5	5
12-14 LST	#	1	1	1	1	#	1	1	#	1	1	2	1
15-17 LST	1	1	1	1	#	#	1	#	1	1	#	1	1
18-20 LST	#	1	#	2	1	1	#	#	1	#	2	1	1
21-23 LST	1	#	1	3	2	2	3	2	1	1	2	3	2
ALL HOURS	1	1	1	3	4	4	5	5	7	5	5	3	4

10. % FREQ OF CIG/VIS LT 200/0.5 MI (SOURCE NO. 1)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
00-02 LST	1	#	0	1	#	0	#	#	#	#	2	2	1
03-05 LST	#	#	0	1	2	#	1	1	3	3	4	1	1
06-08 LST	#	#	1	3	4	4	4	5	14	7	6	2	4
09-11 LST	1	1	#	1	1	#	1	0	2	7	6	3	2
12-14 LST	0	0	#	#	#	#	0	0	0	0	#	1	#
15-17 LST	#	0	#	0	0	0	0	0	0	0	0	1	#
18-20 LST	0	#	0	#	#	0	0	0	0	#	#	#	#
21-23 LST	#	0	0	0	#	0	0	#	0	0	1	1	#
ALL HOURS	#	#	#	1	1	1	1	1	2	2	2	1	1

OPERATIONAL CLIMATIC DATA SUMMARY

STATION: HUICHON, NORTH KOREA

LOCATION: 4010N 12615E

PREPARED BY: USAFETAC/DOC, DEC 1993

STATION #: 470390

ELEVATION (FEET): 509

PERIOD: 7604-9212

ICAO:

LST = GMT + 9

11. PERCENTAGE FREQUENCY OF OCCURRENCE (% FREQ) OF THUNDERSTORMS:

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
00-02 LST	0	0	0	0	1	2	2	1	#	0	0	0	1
03-05 LST	0	0	0	1	1	1	2	1	#	#	0	0	#
06-08 LST	0	0	0	#	1	1	1	1	#	#	0	0	#
09-11 LST	0	0	0	1	#	#	1	1	#	#	0	0	#
12-14 LST	#	0	#	#	1	#	1	1	#	1	0	0	#
15-17 LST	0	0	0	1	1	3	3	2	1	1	#	0	1
18-20 LST	#	0	0	1	3	3	6	3	1	1	#	0	1
21-23 LST	0	#	0	#	2	3	3	2	1	#	0	0	1
ALL HOURS	#	#	#	#	1	2	2	2	1	0	#	0	1

12. % FREQ RAIN AND/OR DRIZZLE:

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
00-02 LST	0	#	3	9	11	13	19	12	7	6	9	2	8
03-05 LST	0	#	5	10	11	14	21	11	9	5	7	2	8
06-08 LST	#	#	3	11	11	14	23	13	6	4	7	3	8
09-11 LST	#	#	3	11	10	11	21	14	8	5	6	2	8
12-14 LST	#	0	4	11	9	11	19	12	10	4	7	2	7
15-17 LST	#	#	4	13	9	12	18	14	10	7	9	2	8
18-20 LST	1	1	5	13	11	13	22	14	9	6	8	2	9
21-23 LST	#	1	5	10	10	14	21	12	8	6	7	1	8
ALL HOURS	#	#	4	11	10	13	21	13	8	5	7	2	8

13. % FREQ SNOW AND/OR ICE PELLETS:

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
00-02 LST	8	7	4	1	0	0	0	0	0	0	3	7	2
03-05 LST	7	9	3	#	0	0	0	0	0	#	4	7	3
06-08 LST	9	10	5	1	0	0	0	0	0	#	4	7	3
09-11 LST	21	13	7	1	0	0	0	0	0	1	4	13	5
12-14 LST	9	6	4	1	0	0	0	0	0	1	2	9	3
15-17 LST	10	7	3	1	0	0	0	0	0	#	2	10	3
18-20 LST	8	7	3	#	0	0	0	0	0	#	3	9	3
21-23 LST	8	5	3	0	0	0	0	0	0	0	3	7	2
ALL HOURS	10	8	4	1	0	0	0	0	0	#	3	9	3

14. % FREQ OF SURFACE WIND SPEEDS GT 25 KTS. (INCLUDING GUSTS):

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
00-02 LST	0	0	0	0	0	0	0	0	0	0	0	0	0
03-05 LST	0	0	0	0	0	0	0	0	0	0	0	0	0
06-08 LST	#	0	0	0	0	0	0	0	0	0	0	0	#
09-11 LST	0	0	0	0	0	0	0	0	0	0	#	0	#
12-14 LST	0	0	0	#	0	0	0	0	0	0	0	0	#
15-17 LST	0	0	0	#	0	0	0	0	0	0	0	0	#
18-20 LST	0	0	0	#	0	0	0	0	0	0	0	0	#
21-23 LST	0	0	0	0	0	#	#	0	0	0	0	0	#
ALL HOURS	#	0	0	#	0	#	#	0	0	0	#	0	#

OPERATIONAL CLIMATIC DATA SUMMARY

STATION: HUICHON, NORTH KOREA
 LOCATION: 4010N 12615E
 PREPARED BY: USAFETAC/DOC, DEC 1993

STATION #: 470390
 ELEVATION (FEET): 509
 PERIOD: 7604-9212

ICAO:
 LST = GMT + 9

15. % FREQ OF CEILING AND/OR VISIBILITY (CIG/VIS) LT 800/2 MI:

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
00-02 LST	2	1	1	4	3	3	4	3	3	1	5	4	3
03-05 LST	1	1	1	5	6	5	9	8	9	6	6	4	5
06-08 LST	2	1	2	9	14	20	20	23	31	13	10	5	12
09-11 LST	2	2	3	3	3	4	4	4	8	14	11	5	5
12-14 LST	#	1	1	1	1	#	1	1	#	1	1	2	1
15-17 LST	1	1	1	1	#	#	1	#	1	1	#	1	1
18-20 LST	#	1	#	2	1	1	#	#	1	#	2	1	1
21-23 LST	1	#	1	3	2	2	3	2	1	1	2	3	2
ALL HOURS	1	1	1	3	4	4	5	5	7	5	5	3	4

16. % FREQ OF CIG/VIS LT 500/1.5 MI:

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
00-02 LST	2	1	1	2	1	#	3	2	3	1	4	3	2
03-05 LST	1	1	1	3	4	4	6	6	7	5	5	3	4
06-08 LST	1	1	2	6	11	15	15	17	25	11	8	4	10
09-11 LST	2	2	2	3	2	3	3	3	5	12	10	4	4
12-14 LST	0	1	#	#	1	#	#	1	0	#	1	2	1
15-17 LST	1	1	#	1	0	0	1	#	0	#	#	1	#
18-20 LST	#	1	#	1	#	#	#	#	#	#	1	1	1
21-23 LST	1	#	#	1	1	#	1	1	1	#	1	3	1
ALL HOURS	1	1	1	2	2	3	4	4	5	4	4	3	3

17. % FREQ OF CIG/VIS LT 300/1 MI:

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
00-02 LST	1	#	#	1	1	0	1	#	1	#	2	2	1
03-05 LST	#	#	0	1	2	1	1	2	4	4	4	2	2
06-08 LST	1	#	1	3	5	6	7	8	16	8	7	3	5
09-11 LST	1	1	1	2	1	#	1	1	2	8	7	4	2
12-14 LST	0	0	#	#	#	#	#	#	0	#	#	1	#
15-17 LST	#	0	#	#	0	0	#	0	0	0	0	1	#
18-20 LST	0	#	0	#	#	0	0	#	0	#	#	#	#
21-23 LST	1	0	#	#	#	0	#	#	0	#	1	2	#
ALL HOURS	#	#	#	1	1	1	1	1	3	3	3	2	1

18. % FREQ OF CIG/VIS LT 100/.25 MI:

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
00-02 LST	#	0	0	#	#	0	0	#	0	0	2	2	#
03-05 LST	#	#	0	1	1	0	#	#	1	1	3	1	1
06-08 LST	#	#	#	1	2	1	2	1	7	4	4	1	2
09-11 LST	#	1	#	0	0	0	0	0	#	4	5	2	1
12-14 LST	0	0	0	0	#	0	0	0	0	0	#	1	#
15-17 LST	#	0	#	0	0	0	0	0	0	0	0	#	#
18-20 LST	0	#	0	0	#	0	0	0	0	0	#	#	#
21-23 LST	#	0	0	0	#	0	0	#	0	0	#	1	#
ALL HOURS	#	#	#	#	#	#	#	#	1	1	2	1	1

SOURCE(S): 1. USAFETAC DATSAV2 SURFACE, APR 76 - DEC 92, 3 HOURLY OBS.
 2. NATIONAL INTELLIGENCE SURVEY, JAN 68, 9-24 YEARS OF RECORD.

REMARKS: * = DATA NOT AVAILABLE # = LT 0.5 DAY, OR 0.05 INCH, OR 0.5%, AS APPLICABLE
 \$ = % CALM GT PVLGN DRCTN
 ‡ = BASED ONLY ON AVAILABLE DATA, I.E. LT 24 HRS/DAY, OR LT 12 MONTH/YR
 ANNUAL TOTALS MAY NOT EQUAL THE SUM OF MONTHLY TOTALS DUE TO ROUNDING

OPERATIONAL CLIMATIC DATA SUMMARY

STATION: HYEJAN, NORTH KOREA
 LOCATION: 4124N 12810E
 PREPARED BY: USAFETAC/DOC, DEC 1993

STATION #: 470160
 ELEVATION (FEET): 2343
 PERIOD: 7301-9212

ICAO:
 LST = GMT + 9

SOURCE NO.	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
1. TEMPERATURE (F)													
EXTREME MAX	1	41	52	64	81	93	93	97	99	88	76	60	44 99
MEAN DAILY MAX	1	14	23	37	54	66	73	78	78	67	54	35	19 50
MEAN	1	2	11	26	42	54	62	69	68	55	41	24	8 39
MEAN DAILY MIN	1	-9	-2	14	31	41	52	60	58	44	29	13	-3 27
EXTREME MIN	1	-31	-25	-11	13	27	37	42	41	25	7	-15	-28 -31
# DAYS GE 90	1	0	0	0	0	#	#	1	1	0	0	0	3
# DAYS LE 32	1	31	28	31	17	3	0	0	0	2	21	29	31 192
# DAYS LE 0	1	27	20	3	0	0	0	0	0	0	4	21	75
2. PRECIPITATION (INCHES)													
MAXIMUM	2	1.1	1.3	1.0	1.7	3.8	6.5	8.8	8.1	8.3	1.9	2.7	3.5 *
MEAN	2	.4	.3	.4	1.0	2.4	3.5	5.3	5.1	2.3	1.1	.5	.4 22.7
MINIMUM	2	#	0	.1	.3	.9	.6	1.6	1.5	1.2	.3	.1	.1 *
MAX 24 HR	2	.6	.9	.8	.9	1.7	1.4	2.4	2.6	4.9	1.4	.8	1.2 4.9
# DAYS W/PRECIP	1	15	13	13	13	13	17	17	14	11	9	13	15 165
# DAYS GE 0.5		*	*	*	*	*	*	*	*	*	*	*	*
3. SNOWFALL (INCHES)													
MEAN		*	*	*	*	*	*	*	*	*	*	*	*
MAXIMUM		*	*	*	*	*	*	*	*	*	*	*	*
MAX 24 HR		*	*	*	*	*	*	*	*	*	*	*	*
# DAYS SNOWFALL	1	15	13	12	6	1	0	0	0	0	3	11	15 76
# DAYS GE 1.5		*	*	*	*	*	*	*	*	*	*	*	*
4. MEAN RELATIVE HUMIDITY (%) / VAPOR PRESSURE (IN HG) / DEWPOINT (F)													
RH (6 LST)	1	79	78	76	77	79	87	90	90	88	81	79	80 82
RH (15 LST)	1	60	55	47	41	38	49	54	54	48	43	54	61 50
VAPOR PRESS	1	.04	.06	.10	.16	.24	.39	.53	.52	.32	.17	.10	.05 .22
DEWPOINT	1	-3	2	15	27	37	51	60	59	45	29	15	1 28
5. SURFACE WINDS 16 PT/KTS / 99.95% HIGHEST PRESSURE ALTITUDE (FEET)													
PVLG DRCTN	1	\$NE	\$NE	\$W	\$W	\$W	\$NE	\$NE	\$NE	\$NE	\$W	\$W	\$W \$W
MEAN SPEED													
(PVLG DRCTN)	1	4	4	7	8	7	4	4	4	4	7	7	7 6
MEAN SPEED													
(ALL OBS)	1	1	2	3	3	3	2	2	1	2	2	2	1 2
MAX PEAK GUST	1	*	*	*	*	*	*	*	*	*	*	*	*
PRESSURE ALT	1	3573	3545	3527	3807	4024	4024	3685	3639	3676	3517	3648	3350 4024
6. MEAN CLOUD COVER (8THS) / THUNDERSTORMS / FOG / BLOWING SAND & DUST (BNBD)													
CLD COVER	1	3	3	4	5	5	6	6	6	5	4	4	3 4
DAYS TSTMS	1	0	#	#	#	1	2	3	1	1	#	#	# 8
DAYS FOG LT 7	1	9	4	2	4	4	5	6	5	6	5	7	10 65
DAYS BNBD LT 7	1	0	#	#	#	#	#	0	0	0	#	0	0 1

OPERATIONAL CLIMATIC DATA SUMMARY

STATION: HYESAN, NORTH KOREA
 LOCATION: 4124N 12810E
 PREPARED BY: USAFETAC/DOC, DEC 1993

STATION #: 470160
 ELEVATION (FEET): 2343
 PERIOD: 7301-9212

ICAO:
 LST = GMT + 9

7. PERCENTAGE FREQUENCY OF OCCURRENCE (% FREQ) OF CEILING AND/OR VISIBILITY (CIG/VIS) LT 3000/3 STATUTE MILES (MI) (SOURCE NO. 1)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
00-02 LST	40	26	25	33	36	49	54	47	35	29	39	43	38
03-05 LST	33	25	25	32	37	58	67	63	48	28	37	37	41
06-08 LST	41	34	34	56	51	75	84	84	73	43	42	42	55
09-11 LST	64	52	38	52	44	60	74	77	76	48	53	61	58
12-14 LST	55	44	31	36	41	46	48	40	36	30	42	53	42
15-17 LST	39	29	31	44	47	56	54	46	38	32	33	42	41
18-20 LST	43	25	26	45	46	56	57	47	38	32	36	46	41
21-23 LST	43	28	22	32	39	55	62	50	34	31	38	46	40
ALL HOURS	45	33	29	41	43	57	63	57	47	34	40	46	44

8. % FREQ OF CIG/VIS LT 1500/3 MI (SOURCE NO. 1)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
00-02 LST	33	18	12	12	12	11	14	11	9	9	19	32	16
03-05 LST	27	18	11	10	10	17	22	22	15	8	15	26	17
06-08 LST	34	25	16	29	24	37	46	43	36	18	24	33	30
09-11 LST	56	42	23	26	13	21	23	31	37	23	31	50	31
12-14 LST	48	35	12	5	5	6	4	4	4	6	21	43	16
15-17 LST	30	14	6	3	3	3	4	3	2	3	10	29	9
18-20 LST	37	14	5	5	4	2	3	4	3	7	17	38	12
21-23 LST	37	19	12	10	11	13	13	11	8	11	21	38	17
ALL HOURS	38	23	12	12	10	14	16	16	14	10	20	36	19

9. % FREQ OF CIG/VIS LT 1000/2 MI (SOURCE NO. 1)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
00-02 LST	5	1	1	2	1	1	2	3	1	1	2	3	2
03-05 LST	4	1	2	1	2	4	5	9	5	1	1	4	3
06-08 LST	4	2	2	5	4	11	16	18	11	2	2	4	7
09-11 LST	10	4	2	3	2	5	5	12	12	4	7	11	6
12-14 LST	5	2	1	1	1	1	1	1	1	1	3	5	2
15-17 LST	1	1	1	#	1	#	0	1	#	#	1	1	1
18-20 LST	5	1	2	1	1	#	#	0	0	1	2	5	2
21-23 LST	6	1	2	2	1	1	1	2	1	1	3	5	2
ALL HOURS	5	2	1	2	2	3	4	6	4	1	3	5	3

10. % FREQ OF CIG/VIS LT 200/0.5 MI (SOURCE NO. 1)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
00-02 LST	#	#	#	0	0	0	#	#	0	0	#	0	#
03-05 LST	0	#	0	0	#	#	1	1	1	0	1	0	#
06-08 LST	0	#	#	2	1	1	2	5	3	#	1	#	1
09-11 LST	2	1	#	1	1	#	#	1	1	#	3	3	1
12-14 LST	#	#	#	0	1	#	#	0	0	#	#	1	#
15-17 LST	0	#	0	0	0	0	0	#	0	0	0	0	#
18-20 LST	#	0	#	0	0	#	0	0	0	0	#	0	#
21-23 LST	#	0	0	0	0	#	#	#	#	#	#	0	#
ALL HOURS	#	#	#	#	#	#	#	1	1	#	1	1	#

OPERATIONAL CLIMATIC DATA SUMMARY

STATION: NYESAN, NORTH KOREA

LOCATION: 4124N 12810E

PREPARED BY: USAFETAC/DOC, DEC 1993

STATION #: 470160

ELEVATION (FEET): 2343

PERIOD: 7301-9212

ICAO:

LST = GMT + 9

11. PERCENTAGE FREQUENCY OF OCCURRENCE (% FREQ) OF THUNDERSTORMS:

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
00-02 LST	0	0	0	0	1	#	#	#	0	0	0	0	#
03-05 LST	0	0	0	#	0	#	#	0	#	0	#	0	#
06-08 LST	0	#	#	#	0	0	#	#	0	0	0	0	#
09-11 LST	0	0	#	0	#	#	0	#	#	0	0	0	#
12-14 LST	0	#	0	0	#	1	#	#	#	#	0	0	#
15-17 LST	0	0	0	0	1	3	3	1	#	#	0	0	1
18-20 LST	0	0	0	#	1	5	4	2	1	0	0	#	1
21-23 LST	0	0	0	#	1	1	2	1	1	0	0	0	#
ALL HOURS	0	#	#	#	#	1	1	1	#	#	#	#	#

12. % FREQ RAIN AND/OR DRIZZLE:

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
00-02 LST	0	0	1	9	15	14	15	13	10	7	3	#	7
03-05 LST	0	#	1	9	11	15	16	11	9	4	2	0	7
06-08 LST	0	#	2	9	10	18	19	17	12	5	2	#	8
09-11 LST	0	#	2	9	10	15	17	13	13	7	2	#	7
12-14 LST	0	0	1	11	12	14	14	11	9	6	2	#	7
15-17 LST	0	1	3	11	15	15	14	14	12	6	4	#	8
18-20 LST	0	0	4	11	15	20	21	14	11	7	3	0	9
21-23 LST	0	#	3	9	15	20	21	17	11	7	4	1	9
ALL HOURS	0	#	2	10	13	16	17	14	11	6	3	#	8

13. % FREQ SNOW AND/OR ICE PELLETS:

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
00-02 LST	14	12	12	5	#	0	0	0	#	3	12	15	6
03-05 LST	17	14	12	4	#	0	0	0	#	4	12	15	7
06-08 LST	19	19	13	6	1	0	0	0	#	4	15	21	8
09-11 LST	24	23	15	8	1	0	0	0	#	4	18	25	10
12-14 LST	11	14	11	5	1	0	0	0	#	4	10	12	6
15-17 LST	9	9	10	5	#	0	0	0	#	3	10	11	5
18-20 LST	9	9	9	5	#	0	0	0	#	3	6	9	4
21-23 LST	8	11	9	4	#	0	0	0	#	3	9	11	5
ALL HOURS	14	14	11	5	#	0	0	0	#	3	12	15	6

14. % FREQ OF SURFACE WIND SPEEDS GT 25 KTS. (INCLUDING GUSTS):

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
00-02 LST	0	0	0	0	0	0	0	0	0	0	#	0	#
03-05 LST	0	0	#	0	0	0	0	0	0	#	0	0	#
06-08 LST	0	#	1	0	0	0	0	0	0	#	0	0	#
09-11 LST	0	0	0	#	0	#	0	#	0	0	0	0	#
12-14 LST	0	#	#	1	1	#	0	#	0	#	0	0	#
15-17 LST	0	#	1	1	1	1	0	#	#	0	#	#	#
18-20 LST	0	1	1	1	#	#	0	0	0	0	0	#	#
21-23 LST	#	#	0	#	0	0	0	0	0	0	#	#	#
ALL HOURS	#	#	#	#	#	#	0	#	#	#	#	#	#

OPERATIONAL CLIMATIC DATA SUMMARY

STATION: **HYESAN, NORTH KOREA**
 LOCATION: 4124N 12810E
 PREPARED BY: USAFETAC/DOC, DEC 1993

STATION #: 470160
 ELEVATION (FEET): 2343
 PERIOD: 7301-9212

ICAO:
 LST = GMT + 9

15. % FREQ OF CEILING AND/OR VISIBILITY (CIG/VIS) LT 800/2 MI:

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
00-02 LST	5	1	1	2	1	1	2	3	1	1	2	3	2
03-05 LST	4	1	2	1	2	4	5	9	5	1	1	4	3
06-08 LST	4	2	2	5	4	11	16	18	11	2	2	4	7
09-11 LST	10	4	2	3	2	5	5	12	12	4	7	11	6
12-14 LST	5	2	1	1	1	1	1	1	1	1	3	5	2
15-17 LST	1	1	1	#	1	#	0	1	#	#	1	1	1
18-20 LST	5	1	2	1	1	#	#	0	0	1	2	5	2
21-23 LST	6	1	2	2	1	1	1	2	1	1	3	5	2
ALL HOURS	5	2	1	2	2	3	4	6	4	1	3	5	3

16. % FREQ OF CIG/VIS LT 500/1.5 MI:

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
00-02 LST	5	1	1	2	1	#	2	3	1	1	2	3	2
03-05 LST	3	1	2	1	2	3	4	7	4	1	1	3	3
06-08 LST	4	2	2	4	3	7	11	14	8	2	2	4	5
09-11 LST	10	4	2	2	1	2	4	7	9	3	6	11	5
12-14 LST	5	2	1	1	1	#	1	#	1	1	3	5	2
15-17 LST	1	1	1	#	1	#	#	1	#	#	1	1	1
18-20 LST	5	1	2	1	0	#	#	#	0	1	2	4	1
21-23 LST	6	1	1	1	1	1	1	2	1	1	3	4	2
ALL HOURS	5	1	1	2	1	2	3	4	3	1	2	4	3

17. % FREQ OF CIG/VIS LT 300/1 MI:

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
00-02 LST	1	#	0	1	0	0	0	#	0	#	1	1	#
03-05 LST	1	#	0	0	1	#	1	2	1	#	1	1	1
06-08 LST	#	#	1	3	2	2	3	6	3	#	1	2	2
09-11 LST	6	2	1	1	1	#	#	2	2	#	4	5	2
12-14 LST	1	1	#	0	1	#	#	0	0	#	1	2	1
15-17 LST	#	#	0	0	#	0	0	#	#	0	#	#	#
18-20 LST	1	0	1	0	0	#	0	#	0	0	1	2	#
21-23 LST	1	0	1	#	0	#	#	1	#	#	1	1	#
ALL HOURS	1	#	1	1	#	#	1	1	1	#	1	2	1

18. % FREQ OF CIG/VIS LT 100/.25 MI:

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
00-02 LST	#	#	#	0	0	0	#	0	0	0	0	0	#
03-05 LST	0	#	0	0	0	0	0	0	0	0	#	0	#
06-08 LST	0	#	#	1	#	0	#	#	1	#	1	#	#
09-11 LST	1	#	0	0	#	#	0	0	#	0	1	1	#
12-14 LST	0	0	0	0	#	0	0	0	0	#	0	0	#
15-17 LST	0	#	0	0	0	0	0	#	0	0	0	0	#
18-20 LST	0	0	0	0	0	0	0	0	0	0	0	0	0
21-23 LST	#	0	#	0	0	#	#	0	#	#	0	0	#
ALL HOURS	#	#	#	#	#	#	#	#	#	#	#	#	#

SOURCE(S): 1. USAFETAC DATSAV2 SURFACE, JAN 73 - DEC 92, 3 HOURLY OBS.
 2. NATIONAL INTELLIGENCE SURVEY, JAN 68, 16-30 YEARS OF RECORD.

REMARKS: * = DATA NOT AVAILABLE # = LT 0.5 DAY, OR 0.05 INCH, OR 0.5%, AS
 APPLICABLE \$ = % CALM GT PVLGN DRCTN
 ‡ = BASED ONLY ON AVAILABLE DATA, I.E. LT 24 HR OR LT 12 MONTH/YR
 ANNUAL TOTALS MAY NOT EQUAL THE SUM OF MONTHLY TOTALS DUE TO ROUNDING

OPERATIONAL CLIMATIC DATA SUMMARY

STATION: KIMCHAEK/SONGJIN, NORTH KOREA
 LOCATION: 4040N 12912E
 PREPARED BY: USAFETAC/DOC, DEC 1993

STATION #: 470250
 ELEVATION (FEET): 75
 PERIOD: 7301-9212

ICAO: ZKKC
 LST = GMT + 9

SOURCE NO.	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN	
1. TEMPERATURE (F)														
EXTREME MAX	1	52	54	66	80	89	91	95	97	88	83	72	57	97
MEAN DAILY MAX	1	31	32	41	52	61	65	72	76	70	60	47	36	54
MEAN	1	24	27	36	46	54	61	68	72	64	54	41	30	48
MEAN DAILY MIN	1	17	20	30	39	48	57	65	67	58	46	34	22	42
EXTREME MIN	1	-4	-1	7	23	34	43	50	55	41	25	10	-3	-4
# DAYS GE 90	1	0	0	0	0	0	#	#	1	0	0	0	0	1
# DAYS LE 32	1	31	28	21	2	0	0	0	0	1	12	28	122	
# DAYS LE 0	1	#	#	0	0	0	0	0	0	0	0	#	0	
2. PRECIPITATION (INCHES)														
MAXIMUM	2	2.3	2.0	4.1	4.3	5.3	8.0	10.1	16.9	12.2	7.6	4.4	3.1	43.6
MEAN	2	.9	.6	.9	1.3	2.2	2.7	4.3	6.1	4.1	1.6	1.6	1.1	27.4
MINIMUM	2	.1	#	.1	0	.2	.1	#	.6	.2	#	.1	.1	17.9
MAX 24 HR	2	.9	1.2	1.4	1.8	3.2	3.0	4.9	6.0	7.4	3.6	2.3	1.7	7.4
# DAYS W/PRECIP	1	9	8	6	8	9	14	15	12	8	6	7	9	111
# DAYS GE 0.5		*	*	*	*	*	*	*	*	*	*	*	*	*
3. SNOWFALL (INCHES)														
MEAN		*	*	*	*	*	*	*	*	*	*	*	*	*
MAXIMUM		*	*	*	*	*	*	*	*	*	*	*	*	*
MAX 24 HR		*	*	*	*	*	*	*	*	*	*	*	*	*
# DAYS SNOWFALL	1	9	8	4	1	0	0	0	0	0	2	8	31	
# DAYS GE 1.5		*	*	*	*	*	*	*	*	*	*	*	*	*
4. MEAN RELATIVE HUMIDITY (%) / VAPOR PRESSURE (IN HG) / DEWPOINT (F)														
RH (3 LST)	1	68	72	76	79	83	91	93	90	85	77	72	70	80
RH (12 LST)	1	58	62	63	64	68	82	84	78	69	59	58	59	67
VAPOR PRESS	1	.09	.11	.15	.22	.32	.47	.64	.67	.49	.30	.18	.12	.31
DEWPOINT	1	13	17	26	36	51	57	65	67	57	43	30	19	40
5. SURFACE WINDS 16 PT/KTS / 99.95% HIGHEST PRESSURE ALTITUDE (FEET)														
FVLG DRCTN	1	\$NW	\$NW	\$S	\$S	\$S	\$S	\$SE	\$S	\$S	\$NW	\$NW	\$NW	\$NW
MEAN SPEED														
(FVLG DRCTN)	1	5	5	9	9	8	6	5	7	8	5	5	5	6
MEAN SPEED														
(ALL OBS)	1	4	4	4	5	4	3	3	3	4	4	4	3	4
MAX PEAK GUST	1	*	*	*	*	*	*	*	*	*	*	*	*	*
PRESSURE ALT	1	534	421	589	834	844	995	694	939	788	863	535	589	995
6. MEAN CLOUD COVER (8THS) / THUNDERSTORMS / FOG / BLOWING SAND & DUST (BNBD)														
CLD COVER	1	3	3	4	4	5	6	6	6	4	3	3	3	4
DAYS TSTMS	1	#	0	#	#	#	#	#	#	#	#	0	#	2
DAYS FOG LT 7	1	8	8	14	20	19	20	23	20	17	13	9	9	180
DAYS BNBD LT 7	1	0	#	#	#	#	#	#	#	0	#	#	#	1

OPERATIONAL CLIMATIC DATA SUMMARY

STATION: KINCHAEK/SONGJIN, NORTH KOREA
 LOCATION: 4040N 12912E
 PREPARED BY: USAFETAC/DOC, DEC 1993

STATION #: 470250
 ELEVATION (FEET): 75
 PERIOD: 7301-9212

ICAO: ZKRC
 LST = GMT + 9

7. PERCENTAGE FREQUENCY OF OCCURRENCE (% FREQ) OF CEILING AND/OR VISIBILITY (CIG/VIS) LT 3000/3 STATUTE MILES (MI) (SOURCE NO. 1)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
00-02 LST	24	23	26	26	35	59	63	48	35	27	25	25	35
03-05 LST	24	23	25	24	36	62	66	47	33	25	26	23	34
06-08 LST	35	38	57	73	76	87	90	79	67	50	42	44	62
09-11 LST	43	45	41	39	38	68	71	52	37	33	38	44	46
12-14 LST	21	21	20	27	35	56	60	42	25	20	21	26	31
15-17 LST	23	27	22	28	33	56	59	40	29	21	25	29	33
18-20 LST	43	37	30	27	34	61	60	48	37	33	35	39	40
21-23 LST	29	29	27	26	32	62	64	49	40	28	29	28	37
ALL HOURS	30	30	31	34	40	64	67	51	38	30	30	32	40

8. % FREQ OF CIG/VIS LT 1500/3 MI (SOURCE NO. 1)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
00-02 LST	11	10	12	12	18	31	31	16	10	10	8	11	15
03-05 LST	12	10	13	12	18	32	37	18	12	11	10	9	16
06-08 LST	25	28	46	62	63	71	75	55	49	36	29	31	47
09-11 LST	29	33	29	24	23	44	45	26	15	18	20	29	28
12-14 LST	8	6	7	9	16	33	33	14	4	3	3	9	12
15-17 LST	5	4	6	7	14	28	27	12	3	2	3	7	10
18-20 LST	23	13	8	9	13	28	27	12	4	6	13	21	15
21-23 LST	17	13	11	10	16	31	29	14	10	9	10	12	15
ALL HOURS	16	15	17	18	22	37	38	21	13	12	12	16	20

9. % FREQ OF CIG/VIS LT 1000/2 MI (SOURCE NO. 1)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
00-02 LST	3	1	4	5	10	16	14	6	3	2	2	2	6
03-05 LST	3	3	4	5	9	17	17	7	2	2	3	3	6
06-08 LST	7	6	16	37	41	49	46	30	22	14	10	8	24
09-11 LST	5	7	8	9	12	26	25	11	3	4	5	7	10
12-14 LST	2	1	2	5	9	20	18	5	1	1	1	2	6
15-17 LST	2	1	2	5	8	16	13	5	1	0	1	3	5
18-20 LST	5	3	2	4	8	16	13	4	1	1	3	5	5
21-23 LST	5	3	3	4	6	15	13	5	1	2	2	3	5
ALL HOURS	4	3	5	9	13	22	20	9	4	3	3	4	8

10. % FREQ OF CIG/VIS LT 200/0.5 MI (SOURCE NO. 1)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
00-02 LST	0	0	#	2	4	7	3	1	#	#	#	#	2
03-05 LST	0	#	1	2	4	6	5	2	#	0	0	#	2
06-08 LST	#	#	2	8	12	18	16	8	1	#	#	1	6
09-11 LST	#	1	2	3	7	11	8	2	#	#	0	#	3
12-14 LST	#	0	#	3	5	8	5	1	#	#	0	#	2
15-17 LST	#	0	#	2	4	6	3	2	0	#	#	#	2
18-20 LST	0	#	1	2	6	9	3	1	0	#	#	#	2
21-23 LST	#	0	0	3	4	8	3	1	0	#	#	0	2
ALL HOURS	#	#	1	3	6	9	6	2	#	#	#	#	2

OPERATIONAL CLIMATIC DATA SUMMARY

STATION: KIMCHAENG/SONGJIN, NORTH KOREA
 LOCATION: 4040N 12912E
 PREPARED BY: USAFETAC/DOC, DEC 1993

STATION #: 470250
 ELEVATION (FEET): 75
 PERIOD: 7301-9212

ICAO: ZKKC
 LST = GMT + 9

11. PERCENTAGE FREQUENCY OF OCCURRENCE (% FREQ) OF THUNDERSTORMS:

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
00-02 LST	#	0	0	0	#	#	#	0	0	0	0	0	#
03-05 LST	0	0	0	0	0	#	#	#	0	0	0	0	#
06-08 LST	0	0	0	0	0	0	0	0	0	0	0	#	#
09-11 LST	0	0	0	#	0	0	#	0	#	0	0	0	#
12-14 LST	0	0	0	0	0	0	0	0	0	0	0	0	0
15-17 LST	0	0	#	0	0	0	0	0	#	0	0	#	#
18-20 LST	0	0	0	0	0	#	#	#	#	0	0	#	#
21-23 LST	0	0	0	#	#	#	0	#	#	#	0	#	#
ALL HOURS	#	0	#	#	#	#	#	#	#	#	0	#	#

12. % FREQ RAIN AND/OR DRIZZLE:

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
00-02 LST	1	1	2	6	8	15	19	12	7	6	4	2	7
03-05 LST	#	1	2	5	8	15	18	11	8	6	6	1	7
06-08 LST	1	1	2	8	8	18	20	12	8	5	6	2	7
09-11 LST	#	1	4	8	9	19	19	14	9	5	5	3	8
12-14 LST	1	1	2	7	8	13	14	12	9	4	6	3	7
15-17 LST	#	1	2	8	8	11	14	12	9	5	6	3	6
18-20 LST	1	1	3	9	10	14	15	12	9	6	6	2	7
21-23 LST	#	1	2	7	11	16	17	10	10	5	7	2	8
ALL HOURS	#	1	2	7	9	15	17	12	9	5	6	2	7

13. % FREQ SNOW AND/OR ICE PELLETS:

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
00-02 LST	9	8	3	#	0	0	0	0	0	#	3	7	3
03-05 LST	8	7	2	#	0	0	0	0	0	#	3	7	2
06-08 LST	8	7	2	1	0	0	0	0	0	#	3	9	2
09-11 LST	10	11	5	#	0	0	0	0	0	0	3	10	3
12-14 LST	12	10	5	1	0	0	0	0	0	#	2	9	3
15-17 LST	12	11	4	1	0	0	0	0	0	#	3	11	3
18-20 LST	14	13	6	1	0	0	0	0	0	0	3	10	4
21-23 LST	11	11	4	#	0	0	0	0	0	#	3	8	3
ALL HOURS	10	10	4	#	0	0	0	0	0	#	3	9	3

14. % FREQ OF SURFACE WIND SPEEDS GT 25 KTS. (INCLUDING GUSTS):

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
00-02 LST	#	#	#	0	#	#	0	0	#	0	#	0	#
03-05 LST	0	0	0	#	0	#	0	#	#	0	0	0	#
06-08 LST	0	#	0	#	0	#	0	0	0	0	0	0	#
09-11 LST	#	1	#	1	0	#	#	0	0	#	1	1	#
12-14 LST	1	1	2	3	1	1	1	#	1	1	1	#	1
15-17 LST	1	1	3	5	3	1	1	1	2	1	2	#	2
18-20 LST	#	1	1	2	1	#	1	#	1	#	#	#	1
21-23 LST	1	#	0	#	#	#	#	#	0	1	#	#	#
ALL HOURS	#	1	1	1	1	#	#	#	#	#	#	#	1

OPERATIONAL CLIMATIC DATA SUMMARY

STATION: KIMCHAEK/SONGJIN, NORTH KOREA
 LOCATION: 4040N 12912E
 PREPARED BY: USAFETAC/DOC, DEC 1993

STATION #: 470250
 ELEVATION (FEET): 75
 PERIOD: 7301-9212

ICAO: ZKKC
 LST = GMT + 9

15. % FREQ OF CEILING AND/OR VISIBILITY (CIG/VIS) LT 800/2 MI:

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
00-02 LST	3	1	4	5	10	16	14	6	3	2	2	2	6
03-05 LST	3	3	4	5	9	17	17	7	2	2	3	3	6
06-08 LST	7	6	16	37	41	49	46	30	22	14	10	8	24
09-11 LST	5	7	8	9	12	26	25	11	3	4	5	7	10
12-14 LST	2	1	2	5	9	20	18	5	1	1	1	2	6
15-17 LST	2	1	2	5	8	16	13	5	1	0	1	3	5
18-20 LST	5	3	2	4	8	16	13	4	1	1	3	5	5
21-23 LST	5	3	3	4	6	15	13	5	1	2	2	3	5
ALL HOURS	4	3	5	9	13	22	20	9	4	3	3	4	8

16. % FREQ OF CIG/VIS LT 500/1.5 MI:

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
00-02 LST	3	1	4	5	10	13	10	4	3	2	2	2	5
03-05 LST	2	2	4	5	9	13	14	6	2	2	2	3	5
06-08 LST	6	5	15	34	39	46	42	26	19	12	9	7	22
09-11 LST	5	7	8	8	11	23	21	9	1	4	4	5	9
12-14 LST	2	#	2	5	9	18	15	4	1	1	#	2	5
15-17 LST	1	1	2	4	7	13	9	4	#	0	1	2	4
18-20 LST	4	3	2	4	7	14	10	3	1	1	2	4	5
21-23 LST	5	2	3	4	6	13	11	4	1	2	2	3	5
ALL HOURS	4	3	5	9	12	19	16	8	4	3	3	3	7

17. % FREQ OF CIG/VIS LT 300/1 MI:

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
00-02 LST	#	#	1	3	6	9	5	2	1	#	1	#	2
03-05 LST	0	1	2	3	5	9	7	3	#	#	1	#	3
06-08 LST	1	1	5	17	24	32	25	13	8	5	2	1	11
09-11 LST	2	1	4	5	8	15	13	3	#	1	1	1	5
12-14 LST	1	0	1	4	6	11	7	2	1	#	0	1	3
15-17 LST	0	#	1	3	5	9	4	2	0	#	1	1	2
18-20 LST	1	#	1	3	6	11	4	2	#	#	1	1	3
21-23 LST	1	#	1	3	4	9	5	2	#	1	1	#	2
ALL HOURS	1	1	2	5	8	13	9	4	1	1	1	1	4

18. % FREQ OF CIG/VIS LT 100/.25 MI:

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
00-02 LST	0	0	#	2	3	4	1	1	#	#	#	0	1
03-05 LST	0	#	1	1	3	3	3	1	0	0	0	#	1
06-08 LST	#	#	2	4	8	10	7	3	0	#	0	#	3
09-11 LST	#	#	1	2	4	4	3	1	#	#	0	0	1
12-14 LST	0	0	0	1	2	2	2	1	#	#	0	#	1
15-17 LST	0	0	#	1	2	2	1	1	0	#	#	#	1
18-20 LST	0	#	0	1	3	4	2	1	0	0	0	#	1
21-23 LST	#	0	#	2	2	4	2	0	0	#	0	0	1
ALL HOURS	#	#	1	2	3	4	3	1	#	#	#	#	1

SOURCE(S): 1. USAFETAC DATSAV2 SURFACE, JAN 73 - DEC 92, 3 HOURLY OBS.
 2. NATIONAL INTELLIGENCE SURVEY, JAN 68, 28-45 YEARS OF RECORD.

REMARKS: * = DATA NOT AVAILABLE # = LT 0.5 DAY, OR 0.05 INCH, OR 0.5%, AS APPLICABLE
 \$ = % CALM GT PVLGN DRCTN
 ‡ = BASED ONLY ON AVAILABLE DATA, I.E. LT 24 HRS/DAY, OR LT 12 MONTH/YR
 ANNUAL TOTALS MAY NOT EQUAL THE SUM OF MONTHLY TOTALS DUE TO ROUNDING

OPERATIONAL CLIMATIC DATA SUMMARY

STATION: HUSONG, NORTH KOREA
 LOCATION: 3959N 12515E
 PREPARED BY: USAFETAC/DOC, DEC 1993

STATION #: 470370
 ELEVATION (FEET): 325
 PERIOD: 7604-9212

ICAO:
 LST = GMT + 9

	SOURCE NO.	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
1. TEMPERATURE (F)														
EXTREME MAX	1	46	53	67	81	90	92	99	96	88	84	66	52	99
MEAN DAILY MAX	1	25	32	45	59	70	77	80	82	74	62	44	31	57
MEAN	1	17	24	36	49	60	69	74	74	64	52	36	23	48
MEAN DAILY MIN	1	7	14	27	39	50	60	68	67	55	42	27	15	39
EXTREME MIN	1	-16	-8	2	25	34	45	56	50	33	23	3	-8	-16
# DAYS GE 90	1	0	0	0	0	#	#	2	3	0	0	0	0	5
# DAYS LE 32	1	31	28	25	5	0	0	0	0	0	4	21	30	143
# DAYS LE 0	1	7	2	0	0	0	0	0	0	0	0	0	2	10
2. PRECIPITATION (INCHES)														
MAXIMUM		*	*	*	*	*	*	*	*	*	*	*	*	*
MEAN		*	*	*	*	*	*	*	*	*	*	*	*	*
MINIMUM		*	*	*	*	*	*	*	*	*	*	*	*	*
MAX 24 HR		*	*	*	*	*	*	*	*	*	*	*	*	*
# DAYS W/PRECIP	1	6	5	6	9	9	12	17	12	7	6	8	7	103
# DAYS GE 0.5		*	*	*	*	*	*	*	*	*	*	*	*	*
3. SNOWFALL (INCHES)														
MEAN		*	*	*	*	*	*	*	*	*	*	*	*	*
MAXIMUM		*	*	*	*	*	*	*	*	*	*	*	*	*
MAX 24 HR		*	*	*	*	*	*	*	*	*	*	*	*	*
# DAYS SNOWFALL	1	6	4	4	1	0	0	0	0	1	2	5	22	
# DAYS GE 1.5		*	*	*	*	*	*	*	*	*	*	*	*	*
4. MEAN RELATIVE HUMIDITY (%) / VAPOR PRESSURE (IN HG) / DEWPOINT (F)														
RH (6 LST)	1	74	71	74	81	86	90	91	90	88	81	76	74	81
RH (15 LST)	1	53	47	44	45	47	57	69	63	53	48	51	54	53
VAPOR PRESS	1	.07	.09	.13	.22	.35	.53	.71	.69	.46	.28	.16	.09	.31
DEWPOINT	1	7	11	22	35	48	60	68	67	55	40	25	13	38
5. SURFACE WINDS 16 PT/KTS / 99.95% HIGHEST PRESSURE ALTITUDE (FEET)														
PVLG DRCTN	1	\$NW	\$NW	\$NW	\$S	\$S	\$S	\$S	\$S	\$NW	\$NW	\$NW	\$NW	\$NW
MEAN SPEED														
(PVLG DRCTN)	1	5	5	4	5	6	5	5	4	4	4	4	4	5
MEAN SPEED														
(ALL OBS)	1	2	2	2	2	2	2	2	1	1	2	2	2	2
MAX PEAK GUST	1	*	*	*	*	*	*	*	*	*	*	*	*	*
PRESSURE ALT	1	512	512	717	1027	829	980	980	1084	754	679	567	577	1084
6. MEAN CLOUD COVER (8THS) / THUNDERSTORMS / FOG / BLOWING SAND & DUST (BNBD)														
CLD COVER	1	3	3	4	5	5	6	6	5	4	4	4	3	4
DAYS TSTMS	1	#	#	0	1	1	1	2	1	1	#	#	#	7
DAYS FOG LT 7	1	11	8	12	13	17	17	21	19	15	15	12	14	175
DAYS BNBD LT 7	1	0	#	0	1	#	#	0	0	0	#	#	#	1

OPERATIONAL CLIMATIC DATA SUMMARY

STATION: KUSONG, NORTH KOREA
 LOCATION: 3959N 12515E
 PREPARED BY: USAFETAC/DOC, DEC 1993

STATION #: 470370
 ELEVATION (FEET): 325
 PERIOD: 7604-9212

ICAO:
 LST = GMT + 9

7. PERCENTAGE FREQUENCY OF OCCURRENCE (% FREQ) OF CEILING AND/OR VISIBILITY (CIG/VIS) LT 3000/3 STATUTE MILES (MI) (SOURCE NO. 1)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
00-02 LST	25	23	30	31	42	55	74	60	42	38	40	34	41
03-05 LST	26	25	36	40	52	63	80	66	47	40	40	34	46
06-08 LST	30	26	38	49	55	69	84	72	52	45	41	35	50
09-11 LST	32	26	38	45	48	58	79	66	44	46	44	39	47
12-14 LST	25	21	28	32	37	49	64	48	31	31	34	34	36
15-17 LST	18	15	22	30	31	45	57	45	33	26	32	29	32
18-20 LST	22	16	23	28	29	38	52	40	27	27	35	32	31
21-23 LST	24	19	23	27	32	45	61	50	35	32	38	34	35
ALL HOURS	25	21	30	35	41	53	69	56	39	36	38	34	40

8. % FREQ OF CIG/VIS LT 1500/3 MI (SOURCE NO. 1)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
00-02 LST	20	18	23	21	29	44	60	48	33	31	31	27	32
03-05 LST	22	19	26	28	38	51	67	55	38	33	31	27	36
06-08 LST	25	19	27	33	43	56	70	57	41	35	32	27	39
09-11 LST	26	19	29	33	36	46	62	52	33	35	32	32	36
12-14 LST	23	13	18	15	19	29	39	25	16	20	24	26	22
15-17 LST	13	9	11	11	11	22	27	18	11	10	16	19	15
18-20 LST	14	10	11	10	11	20	27	16	10	13	21	23	16
21-23 LST	19	14	16	15	17	27	41	34	24	23	28	26	24
ALL HOURS	20	15	20	21	26	37	49	38	26	25	27	26	28

9. % FREQ OF CIG/VIS LT 1000/2 MI (SOURCE NO. 1)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
00-02 LST	2	#	2	1	1	1	2	1	#	#	2	3	1
03-05 LST	2	2	3	1	2	1	4	2	1	3	3	5	2
06-08 LST	2	1	3	4	5	6	10	7	2	4	4	3	4
09-11 LST	3	3	5	4	2	3	5	3	2	5	6	5	4
12-14 LST	3	1	2	2	1	1	2	1	#	0	2	4	2
15-17 LST	2	#	1	2	1	1	1	#	#	#	#	4	1
18-20 LST	2	1	3	1	1	1	1	1	#	1	2	4	1
21-23 LST	2	#	2	1	1	1	2	#	#	1	2	3	1
ALL HOURS	2	1	3	2	2	2	3	2	1	2	3	4	2

10. % FREQ OF CIG/VIS LT 200/0.5 MI (SOURCE NO. 1)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
00-02 LST	1	#	1	0	0	0	0	#	0	0	#	#	#
03-05 LST	1	0	1	#	#	0	#	#	#	1	1	2	1
06-08 LST	1	#	2	2	2	2	3	2	1	1	1	1	1
09-11 LST	1	1	2	2	#	#	#	1	#	1	3	2	1
12-14 LST	1	0	#	0	0	0	0	0	#	0	1	1	#
15-17 LST	#	0	#	0	0	0	0	0	0	0	0	1	#
18-20 LST	1	0	0	0	0	#	1	#	0	0	#	1	#
21-23 LST	#	0	0	#	0	0	0	0	0	0	#	#	#
ALL HOURS	1	#	1	1	#	#	1	#	#	#	1	1	1

OPERATIONAL CLIMATIC DATA SUMMARY

STATION: KUSONG, NORTH KOREA

LOCATION: 3959N 12515E

PREPARED BY: USAFETAC/DOC, DEC 1993

STATION #: 470370

ELEVATION (FEET): 325

PERIOD: 7604-9212

ICAO:

LST = GMT + 9

11. PERCENTAGE FREQUENCY OF OCCURRENCE (% FREQ) OF THUNDERSTORMS:

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
00-02 LST	0	0	0	#	#	1	1	1	#	0	0	0	#
03-05 LST	0	0	0	#	1	#	1	1	1	#	#	0	#
06-08 LST	#	0	0	#	1	#	0	1	0	#	0	0	#
09-11 LST	0	0	0	#	#	#	1	0	1	0	0	0	#
12-14 LST	#	0	0	#	#	0	#	#	0	0	0	0	#
15-17 LST	0	0	0	1	#	#	1	1	1	0	0	#	#
18-20 LST	0	0	0	#	1	#	1	#	#	#	0	#	#
21-23 LST	0	#	0	0	#	1	#	1	1	#	0	0	#
ALL HOURS	#	#	0	#	1	#	1	0	#	#	#	#	#

12. % FREQ RAIN AND/OR DRIZZLE:

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
00-02 LST	#	1	2	7	11	15	21	12	5	4	6	1	7
03-05 LST	1	#	3	9	11	14	24	11	7	4	5	1	8
06-08 LST	1	1	3	9	11	15	23	15	7	6	6	2	8
09-11 LST	#	#	4	9	11	14	26	16	8	4	6	2	8
12-14 LST	#	#	3	8	9	11	22	13	9	5	6	2	8
15-17 LST	1	1	3	10	9	11	19	12	9	5	7	2	7
18-20 LST	1	1	4	10	10	11	19	12	7	8	7	1	7
21-23 LST	#	1	3	7	11	13	18	12	6	5	5	1	7
ALL HOURS	1	1	3	9	10	13	22	13	7	5	6	2	8

13. % FREQ SNOW AND/OR ICE PELLETS:

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
00-02 LST	5	6	3	#	0	0	0	0	0	0	1	4	2
03-05 LST	4	6	3	#	0	0	0	0	0	#	2	3	2
06-08 LST	5	5	2	1	0	0	0	0	0	#	3	4	2
09-11 LST	6	4	4	1	0	0	0	0	0	1	1	6	2
12-14 LST	7	3	4	1	0	0	0	0	0	#	2	6	2
15-17 LST	6	3	3	#	0	0	0	0	0	1	2	6	2
18-20 LST	6	4	3	0	0	0	0	0	0	#	2	5	2
21-23 LST	5	4	3	0	0	0	0	0	#	0	2	4	1
ALL HOURS	6	4	3	#	0	0	0	0	#	#	2	5	2

14. % FREQ OF SURFACE WIND SPEEDS GT 25 KTS. (INCLUDING GUSTS):

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
00-02 LST	0	0	0	0	0	0	0	0	0	0	#	0	#
03-05 LST	0	0	0	0	0	0	0	0	0	0	0	0	0
06-08 LST	0	0	0	0	0	0	0	0	0	0	0	0	0
09-11 LST	#	0	0	0	0	0	0	0	0	0	0	0	#
12-14 LST	0	0	0	0	0	0	0	0	0	0	0	0	0
15-17 LST	0	0	0	0	0	0	0	0	0	0	0	0	0
18-20 LST	0	0	0	#	0	0	0	0	0	0	0	0	#
21-23 LST	0	0	0	0	0	0	0	0	0	0	0	0	0
ALL HOURS	#	0	0	#	0	0	0	0	0	0	#	0	#

OPERATIONAL CLIMATIC DATA SUMMARY

STATION: KUSONG, NORTH KOREA
 LOCATION: 3959N 12515E
 PREPARED BY: USAFETAC/DOC, DEC 1993

STATION #: 470370
 ELEVATION (FEET): 325
 PERIOD: 7604-9212

ICAO:
 LST = GMT + 9

15. % FREQ OF CEILING AND/OR VISIBILITY (CIG/VIS) LT 800/2 MI:

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
00-02 LST	2	#	2	1	1	1	2	1	#	#	2	3	1
03-05 LST	2	2	3	1	2	1	4	2	1	3	3	5	2
06-08 LST	2	1	3	4	5	6	10	7	2	4	4	3	4
09-11 LST	3	3	5	4	2	3	5	3	2	5	6	5	4
12-14 LST	3	1	2	2	1	1	2	1	#	0	2	4	2
15-17 LST	2	#	1	2	1	1	1	#	#	#	#	4	1
18-20 LST	2	1	3	1	1	1	1	1	#	1	2	4	1
21-23 LST	2	#	2	1	1	1	2	#	#	1	2	3	1
ALL HOURS	2	1	3	2	2	2	3	2	1	2	3	4	2

16. % FREQ OF CIG/VIS LT 500/1.5 MI:

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
00-02 LST	2	#	1	1	#	#	2	#	0	0	2	3	1
03-05 LST	1	1	3	1	1	1	3	1	1	2	2	4	2
06-08 LST	2	1	3	3	4	5	9	5	1	3	3	3	3
09-11 LST	2	2	4	4	2	2	3	3	1	3	5	4	3
12-14 LST	2	1	1	1	#	#	1	1	#	0	1	3	1
15-17 LST	2	#	1	1	#	#	1	#	#	0	#	3	1
18-20 LST	1	1	1	1	#	1	1	1	#	#	2	3	1
21-23 LST	2	#	1	1	#	1	1	#	#	0	1	2	1
ALL HOURS	2	1	2	2	1	1	3	1	#	1	2	3	2

17. % FREQ OF CIG/VIS LT 300/1 MI:

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
00-02 LST	1	#	1	#	0	#	1	#	0	0	1	1	1
03-05 LST	1	1	2	1	1	#	2	#	#	1	2	3	1
06-08 LST	1	#	2	3	4	3	5	3	1	2	2	2	2
09-11 LST	1	2	4	3	1	1	1	2	1	2	4	3	2
12-14 LST	1	#	1	1	#	0	0	#	#	0	1	2	1
15-17 LST	1	0	#	#	#	0	0	0	0	0	0	1	#
18-20 LST	1	0	1	#	#	#	1	#	#	#	1	1	1
21-23 LST	1	#	1	1	0	#	#	#	0	0	#	1	#
ALL HOURS	1	1	2	1	1	1	1	1	#	1	1	2	1

18. % FREQ OF CIG/VIS LT 100/.25 MI:

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
00-02 LST	0	0	#	0	0	0	0	#	0	0	0	0	#
03-05 LST	#	0	1	#	#	0	#	#	0	#	#	1	#
06-08 LST	#	0	1	1	1	1	1	#	#	#	#	1	1
09-11 LST	1	#	2	1	#	0	#	#	0	#	#	1	1
12-14 LST	#	0	0	0	0	0	0	0	#	0	#	#	#
15-17 LST	#	0	#	0	0	0	0	0	0	0	0	#	#
18-20 LST	0	0	0	0	0	#	1	#	0	0	#	#	#
21-23 LST	#	0	0	0	0	0	0	0	0	0	#	0	#
ALL HOURS	#	#	1	#	#	#	#	#	#	#	#	#	#

SOURCE(S): 1. USAFETAC DATSAV2 SURFACE, APR 76 - DEC 92, 3 HOURLY OBS.
 2.

REMARKS: * = DATA NOT AVAILABLE # = LT 0.5 DAY, OR 0.05 INCH, OR 0.5%, AS APPLICABLE
 \$ = % CALM GT PVLGN DRCTN
 ‡ = BASED ONLY ON AVAILABLE DATA, I.E. LT 24 HRS/DAY, OR LT 12 MONTH/YR
 ANNUAL TOTALS MAY NOT EQUAL THE SUM OF MONTHLY TOTALS DUE TO ROUNDING

OPERATIONAL CLIMATIC DATA SUMMARY

STATION: PYONGGANG, NORTH KOREA
 LOCATION: 3824N 12718E
 PREPARED BY: USAFETAC/DOC, DEC 1993

STATION #: 470750
 ELEVATION (FEET): 1217
 PERIOD: 7604-9212

ICAO:
 LST = GMT + 9

	SOURCE NO.	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
1. TEMPERATURE (F)														
EXTREME MAX	1	49	57	67	80	85	89	91	94	86	82	72	58	94
MEAN DAILY MAX	1	26	31	44	58	67	74	77	78	71	61	45	33	55
MEAN	1	18	23	36	48	58	67	72	72	63	51	37	25	48
MEAN DAILY MIN	1	7	14	27	38	49	59	66	66	54	42	29	17	39
EXTREME MIN	1	-16	-14	0	24	34	42	52	47	32	21	5	-10	-16
# DAYS GE 90	1	0	0	0	0	0	0	#	1	0	0	0	0	1
# DAYS LE 32	1	31	28	24	6	0	0	0	0	#	4	20	29	142
# DAYS LE 0	1	9	3	#	0	0	0	0	0	0	0	0	2	13
2. PRECIPITATION (INCHES)														
MAXIMUM		*	*	*	*	*	*	*	*	*	*	*	*	*
MEAN		*	*	*	*	*	*	*	*	*	*	*	*	*
MINIMUM		*	*	*	*	*	*	*	*	*	*	*	*	*
MAX 24 HR		*	*	*	*	*	*	*	*	*	*	*	*	*
# DAYS W/PRECIP	1	11	8	9	9	9	11	16	13	7	6	8	9	115
# DAYS GE 0.5		*	*	*	*	*	*	*	*	*	*	*	*	*
3. SNOWFALL (INCHES)														
MEAN		*	*	*	*	*	*	*	*	*	*	*	*	*
MAXIMUM		*	*	*	*	*	*	*	*	*	*	*	*	*
MAX 24 HR		*	*	*	*	*	*	*	*	*	*	*	*	*
# DAYS SNOWFALL	1	10	7	5	1	0	0	0	0	0	0	2	7	32
# DAYS GE 1.5		*	*	*	*	*	*	*	*	*	*	*	*	*
4. MEAN RELATIVE HUMIDITY (%) / VAPOR PRESSURE (IN HG) / DEWPOINT (F)														
RH (6 LST)	1	82	82	83	85	86	89	92	91	91	89	85	84	87
RH (15 LST)	1	62	57	52	45	49	60	73	68	59	51	56	62	58
VAPOR PRESS	1	.08	.10	.15	.22	.34	.50	.67	.66	.46	.29	.18	.12	.31
DEWPOINT	1	11	15	25	35	46	58	66	66	55	42	29	18	39
5. SURFACE WINDS 16 PT/KTS / 99.95% HIGHEST PRESSURE ALTITUDE (FEET)														
PVLG DRCTN	1	\$SW	\$SW	\$SW	\$SW	SW	\$SW	\$SW	\$SW	\$NE	\$SW	\$SW	\$SW	\$SW
MEAN SPEED														
(PVLG DRCTN)	1	7	7	7	8	8	6	6	6	7	6	6	6	7
MEAN SPEED														
(ALL OBS)	1	4	4	5	5	5	4	4	4	3	3	4	4	4
MAX PEAK GUST	1	*	*	*	*	*	*	*	*	*	*	*	*	*
PRESSURE ALT	1	1451	1451	1797	1844	1750	1844	1872	2052	1675	1684	1479	1451	2052
6. MEAN CLOUD COVER (8THS) / THUNDERSTORMS / FOG / BLOWING SAND & DUST (BNBD)														
CLD COVER	1	3	3	4	4	5	5	6	5	5	4	4	4	4
DAYS TSTMS	1	0	0	#	#	1	2	3	2	1	1	#	#	10
DAYS FOG LT 7	1	4	3	2	3	4	6	7	6	5	6	4	4	55
DAYS BNBD LT 7	1	#	#	0	#	#	0	#	0	#	0	0	0	1

OPERATIONAL CLIMATIC DATA SUMMARY

STATION: PYONGGANG, NORTH KOREA
 LOCATION: 3824N 12718E
 PREPARED BY: USAFETAC/DOC, DEC 1993

STATION #: 470750
 ELEVATION (FEET): 1217
 PERIOD: 7604-9212

ICAO:
 LST = GMT + 9

7. PERCENTAGE FREQUENCY OF OCCURRENCE (% FREQ) OF CEILING AND/OR VISIBILITY (CIG/VIS) LT 3000/3 STATUTE MILES (MI) (SOURCE NO. 1)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
00-02 LST	29	27	29	27	30	43	60	50	34	27	35	38	36
03-05 LST	30	28	27	32	33	45	68	55	36	29	37	36	38
06-08 LST	30	30	37	40	46	57	80	65	51	37	41	38	46
09-11 LST	40	40	38	36	44	51	76	61	41	36	47	44	46
12-14 LST	35	33	37	33	38	51	76	66	45	37	46	42	45
15-17 LST	32	34	39	38	39	50	74	61	45	35	36	36	43
18-20 LST	28	28	33	35	36	42	63	51	33	25	34	36	37
21-23 LST	27	23	23	25	30	42	59	44	31	22	29	35	32
ALL HOURS	31	30	33	33	37	48	69	57	40	31	38	38	40

8. % FREQ OF CIG/VIS LT 1500/3 MI (SOURCE NO. 1)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
00-02 LST	4	1	3	4	4	6	14	9	4	2	3	4	5
03-05 LST	5	3	3	6	7	10	16	12	7	7	3	4	7
06-08 LST	5	5	4	13	18	23	35	27	18	12	6	6	14
09-11 LST	9	10	7	10	11	16	28	17	10	12	11	10	12
12-14 LST	5	3	3	7	7	10	18	11	4	4	6	6	7
15-17 LST	4	3	3	7	6	7	18	10	6	4	2	4	6
18-20 LST	4	3	3	7	5	8	21	10	5	3	4	3	6
21-23 LST	5	2	2	5	4	7	15	7	4	1	2	4	5
ALL HOURS	5	4	4	8	8	11	21	13	7	6	5	5	8

9. % FREQ OF CIG/VIS LT 1000/2 MI (SOURCE NO. 1)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
00-02 LST	2	1	2	3	3	3	6	4	2	1	2	3	3
03-05 LST	3	2	2	5	4	6	10	7	5	5	3	2	4
06-08 LST	3	4	3	10	14	17	26	17	16	11	5	4	11
09-11 LST	6	8	3	6	6	8	14	9	6	8	6	8	7
12-14 LST	2	2	1	3	3	5	8	4	1	1	2	4	3
15-17 LST	1	1	1	3	3	3	7	4	2	1	1	2	2
18-20 LST	1	1	2	3	3	4	9	4	2	1	1	2	3
21-23 LST	2	1	1	2	2	3	6	2	1	0	1	2	2
ALL HOURS	3	3	2	4	5	6	11	6	4	3	3	3	4

10. % FREQ OF CIG/VIS LT 200/0.5 MI (SOURCE NO. 1)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
00-02 LST	1	#	1	1	#	1	1	1	1	1	1	1	1
03-05 LST	1	1	1	3	1	3	4	2	2	2	2	2	2
06-08 LST	1	3	1	6	8	8	14	10	10	7	4	3	6
09-11 LST	4	6	1	3	2	2	3	1	2	4	4	4	3
12-14 LST	0	1	#	1	1	1	1	#	#	#	1	1	1
15-17 LST	#	#	#	1	1	#	#	1	#	#	#	1	#
18-20 LST	0	#	#	#	1	#	2	0	#	#	#	#	#
21-23 LST	2	#	#	1	#	1	1	0	0	0	1	1	1
ALL HOURS	1	2	1	2	2	2	3	2	2	2	2	2	2

OPERATIONAL CLIMATIC DATA SUMMARY

STATION: PYONGGANG, NORTH KOREA

LOCATION: 3824N 12718E

PREPARED BY: USAFETAC/DOC, DEC 1993

STATION #: 470750

ELEVATION (FEET): 1217

PERIOD: 7604-9212

ICAO:

LST = GMT + 9

11. PERCENTAGE FREQUENCY OF OCCURRENCE (% FREQ) OF THUNDERSTORMS:

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
00-02 LST	0	0	#	0	#	0	2	1	#	0	#	0	#
03-05 LST	0	0	0	0	#	1	2	1	#	#	#	0	#
06-08 LST	0	0	0	#	0	1	1	2	#	#	0	0	#
09-11 LST	0	0	0	0	0	#	1	1	#	#	0	0	#
12-14 LST	0	0	0	0	#	#	1	1	#	#	#	#	#
15-17 LST	0	0	0	0	#	1	2	1	#	1	#	0	0
18-20 LST	0	0	0	#	2	3	3	2	1	1	0	0	1
21-23 LST	0	0	0	0	1	2	2	1	1	#	0	0	1
ALL HOURS	0	0	#	#	#	1	2	1	#	#	#	#	#

12. % FREQ RAIN AND/OR DRIZZLE:

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
00-02 LST	1	2	2	6	10	12	20	15	8	4	6	3	7
03-05 LST	1	3	3	9	10	14	22	16	8	4	6	3	8
06-08 LST	1	2	4	11	13	15	22	18	9	4	7	3	9
09-11 LST	1	1	4	11	10	14	23	19	10	5	7	3	9
12-14 LST	1	2	5	10	10	12	24	14	8	4	6	3	8
15-17 LST	1	2	6	11	11	12	22	16	10	5	6	3	9
18-20 LST	1	2	5	10	11	14	23	17	10	4	7	2	9
21-23 LST	1	3	4	10	9	11	20	15	10	3	4	3	8
ALL HOURS	1	2	4	10	10	13	22	16	9	4	6	3	8

13. % FREQ SNOW AND/OR ICE PELLETS:

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
00-02 LST	9	5	5	0	0	0	0	0	0	#	1	6	2
03-05 LST	8	6	3	#	0	0	0	0	0	#	2	6	2
06-08 LST	10	7	4	1	0	0	0	0	0	#	2	6	2
09-11 LST	15	12	6	1	0	0	0	0	0	#	3	9	4
12-14 LST	11	9	5	1	0	0	0	0	0	#	3	9	3
15-17 LST	12	9	5	1	0	0	0	0	0	#	2	7	3
18-20 LST	9	6	5	1	0	0	0	0	0	#	2	7	2
21-23 LST	7	6	4	1	0	0	0	0	0	#	1	5	2
ALL HOURS	10	8	5	1	0	0	0	0	0	#	2	7	3

14. % FREQ OF SURFACE WIND SPEEDS GT 25 KTS. (INCLUDING GUSTS):

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
00-02 LST	0	0	0	#	0	0	0	0	0	0	0	0	#
03-05 LST	0	0	0	0	0	0	#	0	0	0	0	0	#
06-08 LST	0	#	0	#	0	0	0	0	0	0	0	0	#
09-11 LST	#	0	0	#	0	0	0	0	0	0	0	0	#
12-14 LST	0	#	0	#	#	0	0	0	0	#	0	#	#
15-17 LST	0	0	0	#	1	0	0	0	0	#	0	0	#
18-20 LST	0	0	0	0	#	0	0	0	#	0	0	0	#
21-23 LST	#	0	0	0	0	0	0	0	0	0	0	0	#
ALL HOURS	#	#	0	#	#	0	#	0	#	#	0	#	#

OPERATIONAL CLIMATIC DATA SUMMARY

STATION: PYONGGANG, NORTH KOREA
 LOCATION: 3824N 12718E
 PREPARED BY: USAFETAC/DOC, DEC 1993

STATION #: 470750
 ELEVATION (FEET): 1217
 PERIOD: 7604-9212

ICAO:
 LST = GMT + 9

15. % FREQ OF CEILING AND/OR VISIBILITY (CIG/VIS) LT 800/2 MI:

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
00-02 LST	2	1	2	3	3	3	6	4	2	1	2	3	3
03-05 LST	3	2	2	5	4	6	10	7	5	5	3	2	4
06-08 LST	3	4	3	10	14	17	26	17	16	11	5	4	11
09-11 LST	6	8	3	6	6	8	14	9	6	8	6	8	7
12-14 LST	2	2	1	3	3	5	8	4	1	1	2	4	3
15-17 LST	1	1	1	3	3	3	7	4	2	1	1	2	2
18-20 LST	1	1	2	3	3	4	9	4	2	1	1	2	3
21-23 LST	2	1	1	2	2	3	6	2	1	0	1	2	2
ALL HOURS	3	3	2	4	5	6	11	6	4	3	3	3	4

16. % FREQ OF CIG/VIS LT 500/1.5 MI:

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
00-02 LST	2	#	2	2	1	2	3	3	1	1	2	2	2
03-05 LST	2	2	2	3	2	4	7	5	4	4	3	2	3
06-08 LST	1	4	3	7	12	14	21	15	13	10	5	4	9
09-11 LST	5	7	3	5	5	6	9	5	5	6	6	7	6
12-14 LST	1	1	1	2	2	4	5	2	1	1	2	3	2
15-17 LST	#	1	1	2	2	2	3	2	#	#	#	1	1
18-20 LST	1	1	1	1	2	2	4	2	1	1	1	1	1
21-23 LST	2	#	1	1	2	1	3	1	#	0	1	2	1
ALL HOURS	2	2	1	3	3	4	7	4	3	3	2	3	3

17. % FREQ OF CIG/VIS LT 300/1 MI:

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
00-02 LST	2	#	1	1	#	1	1	1	1	1	2	2	1
03-05 LST	2	1	1	3	2	3	4	3	3	3	2	2	2
06-08 LST	1	3	2	6	9	10	16	12	12	8	4	3	7
09-11 LST	5	6	1	3	2	2	4	2	3	5	5	5	4
12-14 LST	0	1	#	1	1	2	2	#	#	#	1	2	1
15-17 LST	#	#	#	1	1	#	1	1	#	#	#	1	1
18-20 LST	#	1	1	#	1	#	2	0	#	#	#	1	1
21-23 LST	2	#	1	1	#	1	1	0	0	0	1	2	1
ALL HOURS	1	2	1	2	2	2	4	2	2	2	2	2	2

18. % FREQ OF CIG/VIS LT 100/.25 MI:

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
00-02 LST	1	0	#	1	0	#	#	#	#	1	1	1	1
03-05 LST	1	1	1	2	1	1	2	1	2	1	2	1	1
06-08 LST	#	2	1	4	4	5	7	7	7	4	3	2	4
09-11 LST	3	4	#	2	#	1	1	0	1	2	3	3	2
12-14 LST	0	#	#	1	#	0	#	#	0	#	#	1	#
15-17 LST	0	#	0	1	0	#	0	0	0	#	0	0	#
18-20 LST	0	#	0	0	#	#	#	0	0	#	0	0	#
21-23 LST	#	#	0	#	0	#	#	0	0	0	1	1	#
ALL HOURS	1	1	#	1	1	1	1	1	1	1	1	1	1

SOURCE(S): 1. USAFETAC DATSAV2 SURFACE, APR 76 - DEC 92, 3 HOURLY OBS.
 2.

REMARKS: * = DATA NOT AVAILABLE # = LT 0.5 DAY, OR 0.05 INCH, OR 0.5%, AS APPLICABLE
 \$ = % CALM GT PVLGN DRCTN
 ‡ = BASED ONLY ON AVAILABLE DATA, I.E. LT 24 HRS/DAY, OR LT 12 MONTH/YR
 ANNUAL TOTALS MAY NOT EQUAL THE SUM OF MONTHLY TOTALS DUE TO ROUNDING

OPERATIONAL CLIMATIC DATA SUMMARY

STATION: FUMGSAM, NORTH KOREA
 LOCATION: 4049N 12809E
 PREPARED BY: USAFETAC/DOC, DEC 1993

STATION #: 470220
 ELEVATION (FEET): 3957
 PERIOD: 7604-9212

ICAO:
 LST = GMT + 9

	SOURCE NO.	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
1. TEMPERATURE (F)														
EXTREME MAX	1	41	51	56	75	84	85	90	90	83	76	64	50	90
MEAN DAILY MAX	1	16	21	33	48	60	66	71	71	61	51	35	22	46
MEAN	1	4	10	23	38	50	57	63	62	51	39	24	10	36
MEAN DAILY MIN	1	-7	-1	12	27	38	47	54	53	41	27	12	0	25
EXTREME MIN	1	-27	-25	-12	3	22	34	38	36	19	4	-9	-26	-27
# DAYS GE 90	1	0	0	0	0	0	0	#	#	0	0	0	0	0
# DAYS LE 32	1	31	28	31	22	6	0	0	0	4	23	29	31	206
# DAYS LE 0	1	26	18	4	0	0	0	0	0	0	0	4	18	70
2. PRECIPITATION (INCHES)														
MAXIMUM		*	*	*	*	*	*	*	*	*	*	*	*	*
MEAN		*	*	*	*	*	*	*	*	*	*	*	*	*
MINIMUM		*	*	*	*	*	*	*	*	*	*	*	*	*
MAX 24 HR		*	*	*	*	*	*	*	*	*	*	*	*	*
# DAYS W/PRECIP	1	5	6	8	10	9	12	14	11	7	6	7	7	100
# DAYS GE 0.5		*	*	*	*	*	*	*	*	*	*	*	*	*
3. SNOWFALL (INCHES)														
MEAN		*	*	*	*	*	*	*	*	*	*	*	*	*
MAXIMUM		*	*	*	*	*	*	*	*	*	*	*	*	*
MAX 24 HR		*	*	*	*	*	*	*	*	*	*	*	*	*
# DAYS SNOWFALL	1	4	6	8	6	2	0	0	0	2	6	6	6	40
# DAYS GE 1.5		*	*	*	*	*	*	*	*	*	*	*	*	*
4. MEAN RELATIVE HUMIDITY (%) / VAPOR PRESSURE (IN HG) / DEWPOINT (F)														
RH (6 LST)	1	79	80	80	79	81	92	95	94	91	83	81	79	84
RH (15 LST)	1	58	58	53	47	43	59	68	64	56	44	53	57	55
VAPOR PRESS	1	.04	.06	.09	.15	.22	.36	.48	.47	.30	.16	.10	.06	.21
DEWPOINT	1	-2	2	13	25	35	49	57	56	43	28	15	2	27
5. SURFACE WINDS 16 PT/KTS / 99.95% HIGHEST PRESSURE ALTITUDE (FEET)														
PVLG DRCTN	1	\$NW	\$NW	\$NW	\$NW	\$NW	\$NW	\$SE	\$S	\$NW	\$NW	\$NW	\$NW	\$NW
MEAN SPEED														
(PVLG DRCTN)	1	7	7	7	6	6	5	4	4	5	6	6	6	6
MEAN SPEED														
(ALL OBS)	1	3	3	3	3	3	2	1	1	2	3	2	2	2
MAX PEAK GUST	1	*	*	*	*	*	*	*	*	*	*	*	*	*
PRESSURE ALT	1	4321	4023	3820	5125	4321	4321	4772	4678	4321	4321	4612	4033	5125
6. MEAN CLOUD COVER (8THS) / THUNDERSTORMS / FOG / BLOWING SAND & DUST (BNBD)														
CLD COVER	1	2	3	4	4	5	6	6	6	5	3	3	2	4
DAYS TSTMS	1	#	#	0	#	1	3	2	2	1	#	0	#	10
DAYS FOG LT 7	1	#	#	#	1	2	10	15	16	14	4	2	1	65
DAYS BNBD LT 7	1	#	0	0	0	#	#	#	0	0	#	0	0	1

OPERATIONAL CLIMATIC DATA SUMMARY

STATION: PUNGSA, NORTH KOREA
 LOCATION: 4049N 12809E
 PREPARED BY: USAFETAC/DOC, DEC 1993

STATION #: 470220
 ELEVATION (FEET): 3957
 PERIOD: 7604-9212

ICAO:
 LST = GMT + 9

7. PERCENTAGE FREQUENCY OF OCCURRENCE (% FREQ) OF CEILING AND/OR VISIBILITY (CIG/VIS) LT 3000/3 STATUTE MILES (MI) (SOURCE NO. 1)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
00-02 LST	9	13	19	25	27	46	60	57	43	25	22	13	30
03-05 LST	10	12	17	28	30	57	68	72	51	26	22	15	34
06-08 LST	9	12	19	27	32	66	79	81	65	29	22	14	38
09-11 LST	12	15	17	27	25	38	48	50	47	28	23	17	29
12-14 LST	12	19	24	39	40	55	58	48	44	25	21	16	33
15-17 LST	17	25	29	41	47	65	66	57	50	26	24	17	39
18-20 LST	12	18	25	36	38	53	58	50	40	23	22	15	32
21-23 LST	8	15	17	28	30	48	58	48	35	22	21	13	29
ALL HOURS	11	16	21	31	34	53	62	58	47	25	22	15	33

8. % FREQ OF CIG/VIS LT 1500/3 MI (SOURCE NO. 1)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
00-02 LST	4	5	6	11	13	29	39	38	28	13	10	4	17
03-05 LST	5	6	7	14	16	41	54	60	39	14	10	5	22
06-08 LST	4	5	7	14	19	51	66	69	54	15	10	5	27
09-11 LST	4	6	7	10	11	21	34	38	34	14	12	6	16
12-14 LST	4	5	5	10	12	15	24	18	13	6	6	6	10
15-17 LST	5	4	7	10	11	21	27	21	14	8	5	4	11
18-20 LST	4	5	8	14	11	25	31	22	16	10	7	5	13
21-23 LST	3	5	7	12	12	24	31	23	17	9	8	4	13
ALL HOURS	4	5	7	12	13	28	38	36	27	11	9	5	16

9. % FREQ OF CIG/VIS LT 1000/2 MI (SOURCE NO. 1)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
00-02 LST	1	2	2	8	11	26	36	33	25	11	7	3	14
03-05 LST	1	3	3	10	14	39	51	55	37	12	8	3	20
06-08 LST	1	3	3	10	15	49	63	67	51	13	7	3	24
09-11 LST	2	3	3	6	8	19	32	35	32	12	9	3	14
12-14 LST	1	2	2	5	7	11	18	13	12	4	4	2	7
15-17 LST	2	1	1	6	6	12	18	15	11	6	4	1	7
18-20 LST	1	2	3	7	6	16	23	16	13	7	5	2	8
21-23 LST	1	1	3	7	10	21	26	19	14	8	6	2	10
ALL HOURS	1	2	2	7	10	24	33	32	24	9	6	2	13

10. % FREQ OF CIG/VIS LT 200/0.5 MI (SOURCE NO. 1)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
00-02 LST	0	#	#	1	1	6	9	9	6	2	1	#	3
03-05 LST	1	#	1	2	4	21	22	26	18	5	1	1	8
06-08 LST	#	#	1	4	5	29	39	41	33	7	2	1	14
09-11 LST	#	#	1	1	1	3	5	8	12	6	3	1	3
12-14 LST	0	0	0	#	0	1	1	1	1	#	#	#	#
15-17 LST	#	0	0	#	0	1	1	2	1	0	#	0	#
18-20 LST	0	0	#	0	0	1	2	2	1	#	0	#	1
21-23 LST	0	#	0	#	1	1	1	2	2	1	#	#	1
ALL HOURS	#	#	#	1	1	8	10	11	9	3	1	#	4

OPERATIONAL CLIMATIC DATA SUMMARY

STATION: PUNGSA, NORTH KOREA

LOCATION: 4049N 12809E

PREPARED BY: USAFETAC/DOC, DEC 1993

STATION #: 470220

ELEVATION (FEET): 3957

PERIOD: 7604-9212

ICAO:

LST = GMT + 9

11. PERCENTAGE FREQUENCY OF OCCURRENCE (% FREQ) OF THUNDERSTORMS:

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
00-02 LST	0	0	0	0	0	#	#	1	0	0	0	#	#
03-05 LST	0	0	0	#	0	0	0	0	#	0	0	0	#
06-08 LST	0	0	0	#	0	#	0	#	0	0	0	0	#
09-11 LST	#	0	0	0	0	#	1	#	0	0	0	0	#
12-14 LST	0	#	0	0	1	1	1	1	#	0	0	0	#
15-17 LST	0	#	0	#	2	5	3	4	1	0	0	0	1
18-20 LST	0	0	0	#	2	4	3	3	#	0	0	0	1
21-23 LST	0	0	0	#	#	#	1	2	#	#	0	0	#
ALL HOURS	#	#	0	#	1	1	1	1	#	#	0	#	#

12. % FREQ RAIN AND/OR DRIZZLE:

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
00-02 LST	0	0	#	3	6	10	13	10	6	3	1	#	4
03-05 LST	0	0	0	4	7	8	13	10	5	3	1	0	4
06-08 LST	0	0	0	3	7	11	12	8	7	2	1	0	4
09-11 LST	#	0	0	3	7	9	14	10	8	4	1	0	5
12-14 LST	0	0	#	5	7	11	13	11	8	4	1	0	5
15-17 LST	0	#	1	7	10	15	17	13	11	4	2	0	7
18-20 LST	0	#	1	8	9	13	19	13	8	4	2	1	7
21-23 LST	0	#	#	4	10	13	16	11	6	4	2	#	6
ALL HOURS	#	#	#	5	8	11	15	11	7	3	1	#	5

13. % FREQ SNOW AND/OR ICE PELLETS:

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
00-02 LST	5	5	8	4	2	#	0	0	0	1	7	4	3
03-05 LST	5	5	7	7	1	0	0	0	0	2	6	4	3
06-08 LST	4	5	6	5	2	0	0	0	0	2	6	6	3
09-11 LST	5	6	7	8	2	0	0	0	#	2	8	7	4
12-14 LST	5	7	7	6	1	0	0	0	#	1	6	7	3
15-17 LST	5	7	9	6	1	0	0	0	#	1	6	6	4
18-20 LST	5	7	8	7	2	0	0	0	0	2	5	4	3
21-23 LST	4	6	7	6	2	0	0	#	0	2	5	5	3
ALL HOURS	5	6	8	6	2	#	0	#	#	2	6	6	3

14. % FREQ OF SURFACE WIND SPEEDS GT 25 KTS. (INCLUDING GUSTS):

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
00-02 LST	0	0	0	0	0	0	0	0	0	0	0	0	0
03-05 LST	0	0	0	#	0	0	0	0	0	0	0	0	#
06-08 LST	0	0	0	0	0	0	0	0	0	0	0	0	0
09-11 LST	0	0	0	0	#	0	0	0	0	0	0	0	#
12-14 LST	0	0	#	#	0	0	0	#	0	0	0	#	#
15-17 LST	#	0	0	0	0	0	0	0	0	#	0	0	#
18-20 LST	0	0	0	0	#	0	0	0	0	0	#	0	#
21-23 LST	0	0	0	0	0	0	0	0	0	0	0	0	0
ALL HOURS	#	0	#	#	#	0	0	#	0	#	#	#	#

OPERATIONAL CLIMATIC DATA SUMMARY

STATION: PUNGSAN, NORTH KOREA
 LOCATION: 4049N 12809E
 PREPARED BY: USAFETAC/DOC, DEC 1993

STATION #: 470220
 ELEVATION (FEET): 3957
 PERIOD: 7604-9212

ICAO:
 LST = GMT + 9

15. % FREQ OF CEILING AND/OR VISIBILITY (CIG/VIS) LT 800/2 MI:

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
00-02 LST	1	2	2	8	11	26	36	33	25	11	7	3	14
03-05 LST	1	3	3	10	14	39	51	55	37	12	8	3	20
06-08 LST	1	3	3	10	15	49	63	67	51	13	7	3	24
09-11 LST	2	3	3	6	8	19	32	35	32	12	9	3	14
12-14 LST	1	2	2	5	7	11	18	13	12	4	4	2	7
15-17 LST	2	1	1	6	6	12	18	15	11	6	4	1	7
18-20 LST	1	2	3	7	6	16	23	16	13	7	5	2	8
21-23 LST	1	1	3	7	10	21	26	19	14	8	6	2	10
ALL HOURS	1	2	2	7	10	24	33	32	24	9	6	2	13

16. % FREQ OF CIG/VIS LT 500/1.5 MI:

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
00-02 LST	#	1	1	5	10	21	34	29	21	9	6	2	12
03-05 LST	1	2	2	7	12	34	47	49	34	11	6	2	17
06-08 LST	1	2	3	8	14	45	60	63	49	12	6	2	22
09-11 LST	1	1	3	4	7	17	29	31	29	10	7	3	12
12-14 LST	1	1	2	3	5	8	15	11	10	3	3	2	5
15-17 LST	1	#	1	4	4	9	15	12	8	4	3	1	5
18-20 LST	1	1	1	5	5	12	20	13	9	6	3	#	6
21-23 LST	#	1	2	4	8	16	22	15	12	6	4	2	8
ALL HOURS	1	1	2	5	8	20	30	28	21	8	5	2	11

17. % FREQ OF CIG/VIS LT 300/1 MI:

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
00-02 LST	0	#	#	1	2	6	10	9	6	2	1	1	3
03-05 LST	1	#	1	2	4	21	25	27	19	5	2	1	9
06-08 LST	1	#	1	4	6	31	42	43	35	8	3	1	15
09-11 LST	#	1	1	1	1	4	6	10	15	6	3	1	4
12-14 LST	0	0	#	#	#	1	2	1	1	1	#	#	1
15-17 LST	#	0	0	#	0	1	1	2	1	0	#	0	#
18-20 LST	0	0	#	#	0	1	2	2	1	#	0	#	1
21-23 LST	0	#	0	#	1	1	1	2	2	1	#	#	1
ALL HOURS	#	#	1	1	2	8	11	12	10	3	1	1	4

18. % FREQ OF CIG/VIS LT 100/.25 MI:

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
00-02 LST	0	0	0	0	0	#	0	0	#	0	0	0	#
03-05 LST	0	0	0	0	#	2	1	1	2	#	#	0	1
06-08 LST	0	0	0	1	1	9	11	10	7	1	1	0	3
09-11 LST	#	0	#	#	0	1	#	0	1	1	#	0	#
12-14 LST	0	0	0	0	0	0	0	0	0	0	#	0	#
15-17 LST	#	0	0	0	0	#	0	#	0	0	0	0	#
18-20 LST	0	0	0	0	0	0	#	#	0	0	0	#	#
21-23 LST	0	0	0	0	0	0	0	0	#	0	0	0	#
ALL HOURS	#	0	#	#	#	1	2	1	1	#	#	#	1

SOURCE(S): 1. USAFETAC DATSAV2 SURFACE, APR 76 - DEC 92, 3 HOURLY OBS.

REMARKS: * = DATA NOT AVAILABLE # = LT 0.5 DAY, OR 0.05 INCH, OR 0.5%, AS APPLICABLE
 \$ = % CALM GT PVLGN DRCTN
 ‡ = BASED ONLY ON AVAILABLE DATA, I.E. LT 24 HRS/DAY, OR LT 12 MONTH/YR
 ANNUAL TOTALS MAY NOT EQUAL THE SUM OF MONTHLY TOTALS DUE TO ROUNDING

OPERATIONAL CLIMATIC DATA SUMMARY

STATION: PYONGYANG/SUNAM, NORTH KOREA
 LOCATION: 3902N 12547E
 PREPARED BY: USAFETAC/DOC, DEC 1993

STATION #: 470580
 ELEVATION (FEET): 125
 PERIOD: 7301-9212

ICAO: ZKPY
 LST = GMT + 9

SOURCE NO.	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
1. TEMPERATURE (F)													
EXTREME MAX	1	52	60	66	82	89	94	95	87	82	72	55	95
MEAN DAILY MAX	1	28	34	46	60	71	78	81	82	74	63	46	58
MEAN	1	21	26	38	51	61	70	75	75	66	53	39	50
MEAN DAILY MIN	1	11	18	29	42	52	62	69	69	57	44	31	42
EXTREME MIN	1	-14	-7	7	27	39	48	54	55	40	25	7	-14
# DAYS GE 90	1	0	0	0	0	#	#	2	3	0	0	0	5
# DAYS LE 32	1	31	27	22	2	0	0	0	0	2	17	29	130
# DAYS LE 0	1	3	1	0	0	0	0	0	0	0	0	#	5
2. PRECIPITATION (INCHES)													
MAXIMUM	2	1.9	2.0	2.6	4.7	6.8	8.4	23.8	22.1	17.7	8.9	4.3	3.9 58.9
MEAN	2	.6	.4	1.0	1.8	2.6	3.0	9.3	9.0	4.4	1.8	1.6	.8 36.4
MINIMUM	2	#	#	.1	.3	.4	.2	3.0	1.4	.2	.2	.2	.2 23.1
MAX 24 HR	2	1.3	2.0	2.0	1.9	3.7	2.5	9.5	8.3	7.0	4.0	1.9	1.5 9.5
# DAYS W/PRECIP	1	8	7	7	9	9	10	14	12	7	6	9	8 105
# DAYS GE 0.5		*	*	*	*	*	*	*	*	*	*	*	*
3. SNOWFALL (INCHES)													
MEAN		*	*	*	*	*	*	*	*	*	*	*	*
MAXIMUM		*	*	*	*	*	*	*	*	*	*	*	*
MAX 24 HR		*	*	*	*	*	*	*	*	*	*	*	*
# DAYS SNOWFALL	1	8	5	3	0	0	0	0	0	0	2	5	23
# DAYS GE 1.5		*	*	*	*	*	*	*	*	*	*	*	*
4. MEAN RELATIVE HUMIDITY (%) / VAPOR PRESSURE (IN HG) / DEWPOINT (F)													
RH (6 LST)	1	79	78	80	82	85	89	92	92	93	89	83	85
RH (15 LST)	1	54	48	45	42	46	56	68	66	55	49	54	53
VAPOR PRESS	1	.09	.10	.15	.23	.36	.54	.73	.73	.50	.31	.19	.11 .34
DEWPOINT	1	11	15	25	37	49	60	69	69	58	44	30	17 40
5. SURFACE WINDS 16 PT/KTS / 99.95% HIGHEST PRESSURE ALTITUDE (FEET)													
PVLG DRCTN	1	\$NW	\$NW	\$NW	\$NW	\$NW	\$NW	\$E	\$NW	\$NW	\$NW	\$NW	\$NW
MEAN SPEED													
(PVLG DRCTN)	1	6	7	7	7	6	5	4	4	5	6	7	6
MEAN SPEED													
(ALL OBS)	1	4	5	5	5	4	3	3	3	3	3	4	4
MAX PEAK GUST	1	*	*	*	*	*	*	*	*	*	*	*	*
PRESSURE ALT	1	330	377	639	836	1053	808	789	940	592	535	405	386 1053
6. MEAN CLOUD COVER (8THS) / THUNDERSTORMS / FOG / BLOWING SAND & DUST (BNBD)													
CLD COVER	1	3	3	4	4	5	5	6	5	4	4	3	4
DAYS TSTMS	1	0	#	0	#	1	1	3	2	1	1	#	9
DAYS FOG LT 7	1	23	20	23	20	20	21	23	21	22	22	19	22 257
DAYS BNBD LT 7	1	#	#	#	1	#	#	#	#	#	#	#	3

OPERATIONAL CLIMATIC DATA SUMMARY

STATION: PYONGYANG/SUNAN, NORTH KOREA
 LOCATION: 3902N 12547E
 PREPARED BY: USAFETAC/DOC, DEC 1993

STATION #: 470580
 ELEVATION (FEET): 125
 PERIOD: 7301-9212

ICAO: ZKPY
 LST = GMT + 9

7. PERCENTAGE FREQUENCY OF OCCURRENCE (% FREQ) OF CEILING AND/OR VISIBILITY (CIG/VIS) LT 3000/3 STATUTE MILES (MI) (SOURCE NO. 1)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
00-02 LST	26	20	23	23	25	34	50	37	31	24	35	33	30
03-05 LST	30	25	26	30	29	41	60	49	35	32	38	36	36
06-08 LST	31	29	29	42	42	53	70	61	50	39	38	35	43
09-11 LST	39	38	40	40	39	47	67	57	41	43	46	45	45
12-14 LST	35	33	33	36	37	44	66	57	39	33	37	38	41
15-17 LST	28	26	30	31	31	42	68	59	37	29	35	33	38
18-20 LST	27	22	24	27	27	35	53	43	29	22	33	30	31
21-23 LST	24	17	19	24	23	36	47	32	23	19	29	29	27
ALL HOURS	30	26	28	32	32	41	60	49	36	30	36	35	36

8. % FREQ OF CIG/VIS LT 1500/3 MI (SOURCE NO. 1)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
00-02 LST	14	11	9	7	7	8	12	10	12	10	15	17	11
03-05 LST	18	13	11	11	10	14	21	19	19	16	17	18	16
06-08 LST	19	17	14	20	21	26	29	30	28	22	18	18	22
09-11 LST	28	26	25	19	19	19	22	22	21	28	25	28	23
12-14 LST	25	21	17	12	13	12	13	18	14	14	16	24	17
15-17 LST	17	11	11	9	8	9	12	13	7	7	9	16	11
18-20 LST	14	9	9	7	6	9	12	10	7	5	10	13	9
21-23 LST	12	7	6	6	5	8	10	6	4	4	9	13	7
ALL HOURS	18	14	13	11	11	13	16	16	14	13	15	18	14

9. % FREQ OF CIG/VIS LT 1000/2 MI (SOURCE NO. 1)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
00-02 LST	7	4	4	2	2	2	3	3	3	4	6	8	4
03-05 LST	6	4	4	3	4	3	9	7	7	8	8	9	6
06-08 LST	6	7	7	8	10	14	16	17	16	16	11	10	11
09-11 LST	15	14	11	6	6	7	7	9	10	17	16	17	11
12-14 LST	14	11	6	3	2	3	4	5	3	5	7	12	6
15-17 LST	7	4	3	3	1	1	3	2	1	2	4	6	3
18-20 LST	6	3	2	2	2	2	2	2	2	2	3	4	3
21-23 LST	4	3	3	1	1	1	1	1	1	1	3	5	2
ALL HOURS	8	6	5	3	4	4	6	6	5	7	7	9	6

10. % FREQ OF CIG/VIS LT 200/0.5 MI (SOURCE NO. 1)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
00-02 LST	1	1	1	#	#	#	#	#	0	#	1	3	1
03-05 LST	1	#	2	1	1	1	2	2	2	4	3	4	2
06-08 LST	2	2	3	3	3	3	5	7	8	8	5	5	5
09-11 LST	4	4	3	1	1	1	1	2	5	9	6	6	4
12-14 LST	1	1	#	0	#	#	#	0	0	#	1	3	1
15-17 LST	1	#	#	#	#	0	#	#	0	#	#	#	#
18-20 LST	#	1	#	#	0	0	#	#	#	#	#	1	#
21-23 LST	#	0	#	0	0	0	#	0	#	#	1	1	#
ALL HOURS	1	1	1	1	1	1	1	2	2	3	2	3	2

OPERATIONAL CLIMATIC DATA SUMMARY

STATION: PYONGYANG/SUNAN, NORTH KOREA
 LOCATION: 3902N 12547E
 PREPARED BY: USAFETAC/DOC, DEC 1993

STATION #: 470580
 ELEVATION (FEET): 125
 PERIOD: 7301-9212

ICAO: ZKPY
 LST = GMT + 9

11. PERCENTAGE FREQUENCY OF OCCURRENCE (% FREQ) OF THUNDERSTORMS:

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
00-02 LST	0	0	0	0	#	2	1	1	#	0	0	0	#
03-05 LST	0	0	0	0	#	#	2	#	#	#	#	#	#
06-08 LST	0	0	0	1	1	1	1	1	#	#	#	0	#
09-11 LST	0	0	0	#	#	0	1	#	0	#	#	0	#
12-14 LST	0	0	0	#	#	#	1	0	#	1	#	0	#
15-17 LST	0	0	0	#	1	1	2	2	1	#	0	0	1
18-20 LST	0	#	0	#	1	2	1	1	1	#	#	0	1
21-23 LST	0	0	0	0	#	1	1	1	#	#	#	0	#
ALL HOURS	0	#	0	#	1	1	1	1	#	#	#	#	#

12. % FREQ RAIN AND/OR DRIZZLE:

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
00-02 LST	1	2	4	8	9	11	13	9	7	4	6	2	6
03-05 LST	1	2	5	11	10	10	17	11	7	5	6	3	7
06-08 LST	0	1	4	9	10	10	20	15	8	3	7	3	8
09-11 LST	1	1	5	9	10	10	16	15	9	4	6	3	7
12-14 LST	1	2	5	7	9	9	15	13	7	4	6	3	7
15-17 LST	2	2	5	8	7	10	14	14	9	5	6	4	7
18-20 LST	1	1	5	6	10	9	13	12	9	5	7	3	7
21-23 LST	1	2	5	7	8	9	11	10	7	4	6	2	6
ALL HOURS	1	2	5	8	9	10	15	12	8	4	6	3	7

13. % FREQ SNOW AND/OR ICE PELLETS:

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
00-02 LST	5	5	3	#	0	0	0	0	0	#	1	4	1
03-05 LST	6	5	3	#	0	0	0	0	0	0	2	6	2
06-08 LST	7	7	3	0	0	0	0	0	0	#	2	4	2
09-11 LST	9	7	3	#	0	0	0	0	0	#	2	5	2
12-14 LST	7	4	2	#	0	0	#	0	0	#	2	4	2
15-17 LST	7	2	2	#	0	0	0	0	0	#	2	4	1
18-20 LST	5	3	3	0	0	0	0	0	0	#	1	3	1
21-23 LST	6	3	2	0	0	0	0	0	0	0	1	4	1
ALL HOURS	6	5	3	#	0	0	#	0	0	#	2	4	2

14. % FREQ OF SURFACE WIND SPEEDS GT 25 KTS. (INCLUDING GUSTS):

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
00-02 LST	0	#	0	0	0	#	0	0	0	#	1	0	#
03-05 LST	0	#	#	#	0	0	0	0	#	0	0	#	#
06-08 LST	0	#	0	#	0	0	#	0	#	#	#	0	#
09-11 LST	0	#	#	0	0	#	0	#	#	0	#	#	#
12-14 LST	#	1	1	1	1	#	0	#	#	#	1	#	1
15-17 LST	#	2	2	2	1	#	0	#	1	#	1	1	1
18-20 LST	#	1	2	1	1	#	#	#	#	#	1	#	1
21-23 LST	1	#	1	0	#	0	0	0	0	#	#	1	#
ALL HOURS	#	1	1	1	1	#	#	#	#	#	#	#	#

OPERATIONAL CLIMATIC DATA SUMMARY

STATION: **PYONGYANG/SUMAN, NORTH KOREA**
 LOCATION: 3902N 12547E
 PREPARED BY: USAFETAC/DOC, DEC 1993

STATION #: 470580
 ELEVATION (FEET): 125
 PERIOD: 7301-9212

ICAO: ZKPY
 LST = GMT + 9

15. % FREQ OF CEILING AND/OR VISIBILITY (CIG/VIS) LT 800/2 MI:	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
00-02 LST	7	4	4	2	2	2	3	3	3	4	6	8	4
03-05 LST	6	4	4	3	4	3	9	7	7	8	8	9	6
06-08 LST	6	7	7	8	10	14	16	17	16	16	11	10	11
09-11 LST	15	14	11	6	6	7	7	9	10	17	16	17	11
12-14 LST	14	11	6	3	2	3	4	5	3	5	7	12	6
15-17 LST	7	4	3	3	1	1	3	2	1	2	4	6	3
18-20 LST	6	3	2	2	2	2	2	2	2	2	3	4	3
21-23 LST	4	3	3	1	1	1	1	1	1	1	3	5	2
ALL HOURS	8	6	5	3	4	4	6	6	5	7	7	9	6

16. % FREQ OF CIG/VIS LT 500/1.5 MI:	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
00-02 LST	6	4	3	2	2	2	3	2	2	3	5	7	3
03-05 LST	6	4	4	3	4	3	7	7	6	8	7	8	6
06-08 LST	6	6	6	8	10	12	13	16	16	14	9	9	10
09-11 LST	13	13	10	5	6	6	6	8	10	16	14	14	10
12-14 LST	13	10	6	2	2	3	4	4	3	4	6	12	6
15-17 LST	6	4	3	2	1	1	2	2	1	2	3	6	3
18-20 LST	5	3	2	2	2	1	2	2	2	1	3	3	2
21-23 LST	4	2	3	0	1	1	1	1	1	#	2	5	2
ALL HOURS	7	6	5	3	3	4	5	5	5	6	6	8	5

17. % FREQ OF CIG/VIS LT 300/1 MI:	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
00-02 LST	2	1	1	1	#	#	1	1	0	1	2	3	1
03-05 LST	2	1	2	2	1	1	3	4	2	4	3	5	3
06-08 LST	3	2	4	5	4	5	7	10	10	9	6	6	6
09-11 LST	6	5	4	2	1	2	2	5	6	11	8	8	5
12-14 LST	5	3	1	0	#	#	1	1	#	1	2	5	2
15-17 LST	1	1	1	1	#	0	1	1	#	1	1	1	1
18-20 LST	1	1	1	#	#	#	1	#	#	#	1	2	1
21-23 LST	1	#	#	#	#	#	1	#	#	#	1	2	1
ALL HOURS	3	2	2	1	1	1	2	3	2	3	3	4	2

18. % FREQ OF CIG/VIS LT 100/.25 MI:	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
00-02 LST	1	#	1	#	#	#	0	#	0	0	1	2	#
03-05 LST	1	#	1	1	1	1	1	1	1	2	2	3	1
06-08 LST	2	1	2	2	3	2	3	3	5	6	4	3	3
09-11 LST	3	1	2	#	#	#	#	1	2	5	4	4	2
12-14 LST	1	0	0	0	0	#	0	#	0	0	#	1	#
15-17 LST	#	0	#	0	#	0	#	#	0	#	0	#	#
18-20 LST	#	#	#	0	0	0	#	0	0	#	#	1	#
21-23 LST	0	0	0	0	0	0	0	0	0	#	#	1	#
ALL HOURS	1	#	1	#	#	#	1	1	1	2	1	2	1

SOURCE(S): 1. USAFETAC DATSAV2 SURFACE, JAN 73 - DEC 92, 3 HOURLY OBS.
 2. NATIONAL INTELLIGENCE SURVEY, JAN 68, 27-43 YEARS OF RECORD.

REMARKS: * = DATA NOT AVAILABLE * = LT 0.5 DAY, OR 0.05 INCH, OR 0.5%, AS APPLICABLE
 \$ = % CALM GT PVLGN DRCTN
 ‡ = BASED ONLY ON AVAILABLE DATA, I.E. LT 24 HRS/DAY, OR LT 12 MONTH/YR
 ANNUAL TOTALS MAY NOT EQUAL THE SUM OF MONTHLY TOTALS DUE TO ROUNDING

OPERATIONAL CLIMATIC DATA SUMMARY

STATION: **RYONGYON, NORTH KOREA**
 LOCATION: 3812N 12453E
 PREPARED BY: USAFETAC/DOC, DEC 1993

STATION #: 470680
 ELEVATION (FEET): 16
 PERIOD: 7604-9212

ICAO:
 LST = GMT + 9

	SOURCE NO.	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
1. TEMPERATURE (F)														
EXTREME MAX	1	48	57	65	76	84	90	93	93	85	79	67	59	93
MEAN DAILY MAX	1	31	34	44	55	64	72	77	80	73	63	49	37	57
MEAN	1	25	29	38	48	58	66	73	74	66	55	43	32	51
MEAN DAILY MIN	1	17	22	32	42	51	61	68	69	58	47	35	25	44
EXTREME MIN	1	-2	0	14	27	35	49	52	57	42	30	12	1	-2
# DAYS GE 90	1	0	0	0	0	0	#	1	#	0	0	0	0	1
# DAYS LE 32	1	30	26	17	2	0	0	0	0	0	#	12	26	113
# DAYS LE 0	1	#	#	0	0	0	0	0	0	0	0	0	0	0
2. PRECIPITATION (INCHES)														
MAXIMUM		*	*	*	*	*	*	*	*	*	*	*	*	*
MEAN		*	*	*	*	*	*	*	*	*	*	*	*	*
MINIMUM		*	*	*	*	*	*	*	*	*	*	*	*	*
MAX 24 HR		*	*	*	*	*	*	*	*	*	*	*	*	*
# DAYS W/PRECIP	1	12	8	7	8	9	9	14	10	6	5	10	13	109
# DAYS GE 0.5		*	*	*	*	*	*	*	*	*	*	*	*	*
3. SNOWFALL (INCHES)														
MEAN		*	*	*	*	*	*	*	*	*	*	*	*	*
MAXIMUM		*	*	*	*	*	*	*	*	*	*	*	*	*
MAX 24 HR		*	*	*	*	*	*	*	*	*	*	*	*	*
# DAYS SNOWFALL	1	11	6	2	0	0	0	0	0	0	4	9	31	
# DAYS GE 1.5		*	*	*	*	*	*	*	*	*	*	*	*	*
4. MEAN RELATIVE HUMIDITY (%) / VAPOR PRESSURE (IN HG) / DEWPOINT (F)														
RH (6 LST)	1	76	75	77	79	84	91	94	93	89	83	79	78	83
RH (15 LST)	1	64	60	57	57	62	71	81	74	62	58	59	66	65
VAPOR PRESS	1	.11	.12	.16	.24	.36	.54	.74	.75	.52	.34	.21	.14	.35
DEWPOINT	1	17	19	28	38	48	60	69	69	58	46	34	24	43
5. SURFACE WINDS 16 PT/KTS / 99.95% HIGHEST PRESSURE ALTITUDE (FEET)														
FVLG DRCTN	1	N	N	N	N	SE	\$S	\$S	\$N	\$N	N	N	N	N
MEAN SPEED														
(FVLG DRCTN)	1	9	8	8	7	9	7	7	6	6	7	9	8	8
MEAN SPEED														
(ALL OBS)	1	7	7	7	7	7	6	5	5	5	6	6	7	6
MAX PEAK GUST	1	*	*	*	*	*	*	*	*	*	*	*	*	*
PRESSURE ALT	1	203	306	549	681	493	775	756	709	436	352	455	268	775
6. MEAN CLOUD COVER (8THS) / THUNDERSTORMS / FOG / BLOWING SAND & DUST (BNBD)														
CLD COVER	1	4	4	4	4	4	5	6	5	4	3	4	4	4
DAYS TSTMS	1	0	0	0	#	1	1	2	1	#	1	#	#	6
DAYS FOG LT 7	1	2	2	3	3	5	9	11	6	4	5	3	2	55
DAYS BNBD LT 7	1	#	#	#	#	#	#	#	0	0	#	#	#	1

OPERATIONAL CLIMATIC DATA SUMMARY

STATION: RYONGYON, NORTH KOREA
 LOCATION: 3812N 12453E
 PREPARED BY: USAFETAC/DOC, DEC 1993

STATION #: 470680
 ELEVATION (FEET): 16
 PERIOD: 7604-9212

ICAO:
 LST = GMT + 9

7. PERCENTAGE FREQUENCY OF OCCURRENCE (% FREQ) OF CEILING AND/OR VISIBILITY (CIG/VIS) LT 3000/3 STATUTE MILES (MI) (SOURCE NO. 1)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
00-02 LST	35	23	21	22	28	38	54	33	17	17	36	42	31
03-05 LST	33	25	20	25	29	42	60	37	22	21	32	35	32
06-08 LST	34	24	23	28	34	47	71	51	27	26	34	41	37
09-11 LST	39	29	26	24	29	41	61	43	24	29	43	49	36
12-14 LST	38	27	21	22	25	34	55	39	21	25	37	45	33
15-17 LST	38	26	20	20	21	32	55	36	22	23	38	44	31
18-20 LST	38	26	18	21	24	33	50	31	19	21	37	45	30
21-23 LST	35	23	18	20	25	35	52	32	19	21	36	42	30
ALL HOURS	36	25	21	23	27	38	57	38	22	23	37	43	32

8. % FREQ OF CIG/VIS LT 1500/3 MI (SOURCE NO. 1)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
00-02 LST	9	6	5	7	13	18	27	14	4	4	8	9	10
03-05 LST	8	6	6	9	13	19	31	15	8	9	8	10	12
06-08 LST	9	6	7	12	20	31	46	30	13	12	8	10	17
09-11 LST	12	9	10	12	16	25	38	20	11	10	11	17	16
12-14 LST	12	8	7	8	10	17	26	12	4	4	10	15	11
15-17 LST	10	6	6	6	9	11	22	10	6	3	8	12	9
18-20 LST	9	7	6	7	11	14	23	11	5	3	6	12	10
21-23 LST	7	6	7	6	13	17	27	12	5	4	5	11	10
ALL HOURS	10	7	7	8	13	19	30	16	7	6	8	12	12

9. % FREQ OF CIG/VIS LT 1000/2 MI (SOURCE NO. 1)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
00-02 LST	3	1	3	4	9	12	21	8	1	2	2	1	6
03-05 LST	1	2	3	5	9	14	21	8	3	5	2	2	6
06-08 LST	1	2	3	8	13	23	33	19	7	8	3	3	10
09-11 LST	2	2	5	7	10	17	23	12	5	6	4	3	8
12-14 LST	3	2	2	5	6	12	16	5	1	1	2	2	5
15-17 LST	2	1	2	3	5	8	14	6	1	1	1	1	4
18-20 LST	1	1	3	4	8	10	17	6	2	1	1	2	5
21-23 LST	1	2	4	3	8	12	20	7	1	1	1	2	5
ALL HOURS	2	1	3	5	8	13	20	9	3	3	2	2	6

10. % FREQ OF CIG/VIS LT 200/0.5 MI (SOURCE NO. 1)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
00-02 LST	#	0	2	1	4	5	7	2	1	1	1	1	2
03-05 LST	0	#	1	3	4	6	8	3	2	3	1	1	3
06-08 LST	#	#	1	4	5	12	14	7	4	5	2	2	5
09-11 LST	1	1	2	3	3	6	7	2	3	4	2	2	3
12-14 LST	1	#	1	1	1	3	2	0	#	0	1	#	1
15-17 LST	1	0	1	1	1	1	3	#	0	#	#	#	1
18-20 LST	#	0	1	2	2	1	3	#	#	1	#	#	1
21-23 LST	#	1	2	1	3	3	6	1	0	#	#	#	2
ALL HOURS	0	#	1	2	3	5	6	2	1	2	1	1	2

OPERATIONAL CLIMATIC DATA SUMMARY

STATION: RYONGYOM, NORTH KOREA

LOCATION: 3812N 12453E

PREPARED BY: USAFETAC/DOC, DEC 1993

STATION #: 470680

ELEVATION (FEET): 16

PERIOD: 7604-9212

ICAO:

LST = GMT + 9

11. PERCENTAGE FREQUENCY OF OCCURRENCE (% FREQ) OF THUNDERSTORMS:

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
00-02 LST	0	0	0	#	#	#	#	1	#	1	#	#	#
03-05 LST	0	0	0	#	0	#	1	1	0	#	0	0	#
06-08 LST	0	0	0	#	#	#	2	1	0	0	0	0	#
09-11 LST	0	0	0	0	0	1	3	1	#	#	0	0	#
12-14 LST	0	0	0	0	#	#	1	#	0	0	#	0	#
15-17 LST	0	0	0	#	#	0	#	#	#	#	#	#	#
18-20 LST	0	0	0	#	#	#	#	#	0	1	0	0	#
21-23 LST	0	0	0	0	1	#	1	#	#	1	#	0	#
ALL HOURS	0	0	0	#	#	#	1	#	#	#	#	#	#

12. % FREQ RAIN AND/OR DRIZZLE:

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
00-02 LST	2	2	4	8	10	11	17	11	5	5	6	2	7
03-05 LST	1	1	5	9	9	13	18	12	7	3	7	3	7
06-08 LST	2	3	5	10	12	13	19	15	6	4	6	4	8
09-11 LST	1	2	6	9	11	12	22	14	8	4	6	6	8
12-14 LST	2	3	5	8	9	10	16	13	6	6	6	5	7
15-17 LST	2	3	5	6	9	8	15	10	8	4	5	3	7
18-20 LST	1	2	5	7	9	12	14	9	7	4	6	4	7
21-23 LST	1	3	5	8	11	12	15	10	7	4	6	2	7
ALL HOURS	2	2	5	8	10	11	17	12	7	4	6	4	7

13. % FREQ SNOW AND/OR ICE PELLETS:

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
00-02 LST	12	6	1	0	0	0	0	0	0	#	4	10	3
03-05 LST	10	7	1	#	0	0	0	0	0	#	2	10	2
06-08 LST	11	6	1	#	0	0	0	0	0	#	4	10	3
09-11 LST	13	7	2	0	0	0	0	0	0	0	4	13	3
12-14 LST	14	9	2	0	0	0	0	0	0	#	5	16	4
15-17 LST	15	8	2	0	0	0	0	0	0	0	5	15	4
18-20 LST	15	8	1	0	0	0	0	0	0	0	3	12	3
21-23 LST	11	6	1	0	0	0	0	0	0	#	3	11	3
ALL HOURS	13	7	2	#	0	0	0	0	0	#	4	12	3

14. % FREQ OF SURFACE WIND SPEEDS GT 25 KTS. (INCLUDING GUSTS):

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
00-02 LST	0	0	0	0	0	0	0	#	0	0	0	#	#
03-05 LST	#	0	#	0	0	0	0	0	#	0	0	0	#
06-08 LST	0	#	#	0	0	0	0	#	0	0	0	#	#
09-11 LST	0	0	#	#	#	0	0	#	0	0	#	0	#
12-14 LST	0	#	#	#	#	#	0	1	0	#	0	0	#
15-17 LST	0	#	#	#	#	#	0	#	0	#	#	0	#
18-20 LST	0	0	#	#	#	#	0	0	0	#	0	#	#
21-23 LST	#	0	0	0	#	0	0	#	#	#	0	0	#
ALL HOURS	#	#	#	#	#	#	0	#	#	#	#	#	#

OPERATIONAL CLIMATIC DATA SUMMARY

STATION: RYONGYON, NORTH KOREA
 LOCATION: 3812N 12453E
 PREPARED BY: USAFETAC/DOC, DEC 1993

STATION #: 470680
 ELEVATION (FEET): 16
 PERIOD: 7604-9212

ICAO:
 LST = GMT + 9

15. % FREQ OF CEILING AND/OR VISIBILITY (CIG/VIS) LT 800/2 MI:

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
00-02 LST	3	1	3	4	9	12	21	8	1	2	2	1	6
03-05 LST	1	2	3	5	9	14	21	8	3	5	2	2	6
06-08 LST	1	2	3	8	13	23	33	19	7	8	3	3	10
09-11 LST	2	2	5	7	10	17	23	12	5	6	4	3	8
12-14 LST	3	2	2	5	6	12	16	5	1	1	2	2	5
15-17 LST	2	1	2	3	5	8	14	6	1	1	1	1	4
18-20 LST	1	1	3	4	8	10	17	6	2	1	1	2	5
21-23 LST	1	2	4	3	8	12	20	7	1	1	1	2	5
ALL HOURS	2	1	3	5	8	13	20	9	3	3	2	2	6

16. % FREQ OF CIG/VIS LT 500/1.5 MI:

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
00-02 LST	2	1	2	4	7	9	16	6	1	2	2	1	4
03-05 LST	1	2	3	4	8	10	17	7	2	5	2	2	5
06-08 LST	1	1	3	8	10	20	28	15	5	8	3	2	9
09-11 LST	2	2	5	6	7	13	17	8	4	5	4	3	6
12-14 LST	2	1	2	4	3	9	12	4	1	1	1	2	3
15-17 LST	2	1	2	2	3	7	11	4	1	#	1	1	3
18-20 LST	1	1	2	3	5	7	12	4	1	1	1	2	3
21-23 LST	1	1	3	3	7	8	16	5	#	1	1	1	4
ALL HOURS	2	1	3	4	6	10	16	7	2	3	2	2	5

17. % FREQ OF CIG/VIS LT 300/1 MI:

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
00-02 LST	1	0	2	2	4	5	7	2	1	1	1	1	2
03-05 LST	#	1	1	3	4	6	8	3	2	4	2	1	3
06-08 LST	1	1	1	5	6	13	15	8	4	7	2	2	5
09-11 LST	1	1	3	3	3	7	7	2	3	5	3	3	3
12-14 LST	1	#	1	2	1	4	2	#	#	0	1	1	1
15-17 LST	1	#	1	1	1	2	3	#	0	#	#	#	1
18-20 LST	#	0	1	2	2	2	3	1	#	1	#	1	1
21-23 LST	#	1	2	1	3	4	6	2	0	#	#	1	2
ALL HOURS	1	#	2	2	3	5	6	2	1	2	1	1	2

18. % FREQ OF CIG/VIS LT 100/.25 MI:

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
00-02 LST	0	0	1	1	3	3	4	1	1	1	1	0	1
03-05 LST	0	#	1	2	3	4	6	2	1	2	1	1	2
06-08 LST	0	#	1	3	3	7	10	5	2	3	1	1	3
09-11 LST	1	#	2	1	2	2	3	2	2	3	2	2	2
12-14 LST	#	#	#	1	1	1	1	0	0	0	1	#	#
15-17 LST	#	0	#	1	#	1	#	#	0	0	#	#	#
18-20 LST	#	0	1	1	1	#	1	#	0	#	#	#	#
21-23 LST	#	0	1	1	2	1	4	1	0	#	#	#	1
ALL HOURS	#	#	1	1	2	2	4	1	1	1	1	0	1

SOURCE(S): 1. USAFETAC DATSAV2 SURFACE, APR 76 - DEC 92, 3 HOURLY OBS.
 2.

REMARKS: * = DATA NOT AVAILABLE # = LT 0.5 DAY, OR 0.05 INCH, OR 0.5%, AS APPLICABLE
 \$ = % CALM GT PVLGN DRCTN
 ‡ = BASED ONLY ON AVAILABLE DATA, I.E. LT 24 HRS/DAY, OR LT 12 MONTH/YR
 ANNUAL TOTALS MAY NOT EQUAL THE SUM OF MONTHLY TOTALS DUE TO ROUNDING

OPERATIONAL CLIMATIC DATA SUMMARY

STATION: SINGYE, NORTH KOREA
 LOCATION: 3830N 12632E
 PREPARED BY: USAFETAC/DOC, DEC 1993

STATION #: 470670
 ELEVATION (FEET): 328
 PERIOD: 7604-9212

ICAO:
 LST = GMT + 9

SOURCE NO.	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
1. TEMPERATURE (F)													
EXTREME MAX	1	49	58	73	83	91	92	97	99	87	84	72	59 97
MEAN DAILY MAX	1	28	34	47	61	71	78	80	82	74	64	48	34 58
MEAN	1	20	26	38	51	61	69	74	75	65	53	39	27 50
MEAN DAILY MIN	1	9	16	28	40	51	61	68	68	56	43	30	18 41
EXTREME MIN	1	-14	-8	5	23	36	46	54	52	35	23	9	-7 -14
# DAYS GE 90	1	0	0	0	0	#	1	2	3	0	0	0	0 6
# DAYS LE 32	1	31	27	23	4	0	0	0	0	0	3	19	29 135
# DAYS LE 0	1	6	2	0	0	0	0	0	0	0	0	0	1 9
2. PRECIPITATION (INCHES)													
MAXIMUM		*	*	*	*	*	*	*	*	*	*	*	*
MEAN		*	*	*	*	*	*	*	*	*	*	*	*
MINIMUM		*	*	*	*	*	*	*	*	*	*	*	*
MAX 24 HR		*	*	*	*	*	*	*	*	*	*	*	*
# DAYS W/PRECIP	1	9	6	7	9	9	11	16	12	8	6	8	9 108
# DAYS GE 0.5		*	*	*	*	*	*	*	*	*	*	*	*
3. SNOWFALL (INCHES)													
MEAN		*	*	*	*	*	*	*	*	*	*	*	*
MAXIMUM		*	*	*	*	*	*	*	*	*	*	*	*
MAX 24 HR		*	*	*	*	*	*	*	*	*	*	*	*
# DAYS SNOWFALL	1	8	5	3	0	0	0	0	0	0	2	5	22
# DAYS GE 1.5		*	*	*	*	*	*	*	*	*	*	*	*
4. MEAN RELATIVE HUMIDITY (%) / VAPOR PRESSURE (IN HG) / DEWPOINT (F)													
RH (6 LST)	1	80	79	82	82	86	90	94	93	91	87	84	83 86
RH (15 LST)	1	58	52	46	41	45	56	72	66	55	46	52	58 54
VAPOR PRESS	1	.09	.10	.15	.23	.36	.54	.73	.72	.49	.30	.18	.12 .33
DEWPOINT	1	12	16	26	36	48	60	69	68	57	43	30	19 40
5. SURFACE WINDS 16 PT/KTS / 99.95% HIGHEST PRESSURE ALTITUDE (FEET)													
PVLG DRCTN	1	\$NW	\$NW	\$NW	\$S	\$S	\$S	\$S	\$S	\$NW	\$NW	\$NW	\$NW \$S
MEAN SPEED													
(PVLG DRCTN)	1	7	7	7	9	8	7	6	5	5	7	6	6 7
MEAN SPEED													
(ALL OBS)	1	3	3	3	5	5	4	3	2	2	3	3	3 3
MAX PEAK GUST	1	*	*	*	*	*	*	*	*	*	*	*	*
PRESSURE ALT	1	561	552	908	1011	814	1002	974	1248	804	748	608	506 1248
6. MEAN CLOUD COVER (8THS) / THUNDERSTORMS / FOG / BLOWING SAND & DUST (BNBD)													
CLD COVER	1	3	3	4	5	5	6	7	6	5	4	4	4 4
DAYS TSTMS	1	0	0	0	#	1	1	2	1	#	#	#	# 5
DAYS FOG LT 7	1	7	6	7	6	7	9	11	9	8	9	6	8 94
DAYS BNBD LT 7	1	0	#	#	#	#	#	#	#	0	#	#	# 1

OPERATIONAL CLIMATIC DATA SUMMARY

STATION: SINGYE, NORTH KOREA
 LOCATION: 3830N 12632E
 PREPARED BY: USAFETAC/DOC, DEC 1993

STATION #: 470670
 ELEVATION (FEET): 328
 PERIOD: 7604-9212

ICAO:
 LST = GMT + 9

7. PERCENTAGE FREQUENCY OF OCCURRENCE (% FREQ) OF CEILING AND/OR VISIBILITY (CIG/VIS) LT 3000/3 STATUTE MILES (MI) (SOURCE NO. 1)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
00-02 LST	18	15	16	16	21	31	45	36	16	14	21	25	23
03-05 LST	21	16	15	23	27	40	56	45	25	20	24	27	28
06-08 LST	23	18	27	36	39	54	73	59	38	33	34	30	39
09-11 LST	33	30	29	29	34	42	64	48	32	29	33	36	37
12-14 LST	24	22	23	26	28	37	59	46	27	21	27	29	31
15-17 LST	24	21	25	29	29	41	58	43	34	23	30	25	32
18-20 LST	19	16	18	22	24	34	49	39	24	18	26	26	26
21-23 LST	17	13	14	16	19	31	48	34	17	13	20	25	22
ALL HOURS	22	19	21	25	28	39	57	44	27	21	27	28	30

8. % FREQ OF CIG/VIS LT 1500/3 MI (SOURCE NO. 1)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
00-02 LST	11	9	9	8	9	15	21	14	6	5	8	14	11
03-05 LST	13	9	10	12	13	21	32	21	14	12	11	16	15
06-08 LST	16	12	16	19	24	33	44	30	25	24	17	20	23
09-11 LST	22	21	16	14	15	19	26	17	16	17	14	23	18
12-14 LST	15	11	6	7	4	7	13	6	4	4	8	16	8
15-17 LST	11	6	4	7	4	7	8	5	4	2	3	10	6
18-20 LST	10	6	4	5	5	6	10	4	4	3	6	11	6
21-23 LST	11	7	6	6	7	12	16	8	5	3	4	11	8
ALL HOURS	14	10	9	10	10	15	21	13	10	9	9	15	12

9. % FREQ OF CIG/VIS LT 1000/2 MI (SOURCE NO. 1)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
00-02 LST	2	1	1	2	2	2	3	1	1	1	1	4	2
03-05 LST	2	2	2	2	3	6	10	5	5	4	4	5	4
06-08 LST	3	3	4	6	10	12	21	15	12	9	5	7	9
09-11 LST	6	5	5	4	5	5	6	6	6	9	7	11	6
12-14 LST	3	3	1	1	1	0	2	#	0	#	3	4	2
15-17 LST	1	1	#	1	#	1	1	#	#	0	#	2	1
18-20 LST	1	#	#	2	1	#	2	#	#	1	1	2	1
21-23 LST	1	#	#	1	1	#	3	1	0	#	#	3	1
ALL HOURS	2	2	2	3	3	3	6	4	3	3	3	5	3

10. % FREQ OF CIG/VIS LT 200/0.5 MI (SOURCE NO. 1)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
00-02 LST	1	1	#	1	1	1	1	#	#	#	1	3	1
03-05 LST	2	1	1	2	3	3	6	3	3	3	2	4	3
06-08 LST	2	2	3	5	6	9	15	13	9	6	2	4	6
09-11 LST	3	3	4	4	2	2	2	2	5	7	5	6	4
12-14 LST	2	1	#	#	#	0	1	0	0	#	1	3	1
15-17 LST	1	0	0	#	#	#	#	0	0	0	0	1	#
18-20 LST	1	#	0	#	#	0	0	#	0	#	#	1	#
21-23 LST	0	#	#	#	0	#	1	#	0	0	#	2	#
ALL HOURS	1	1	1	2	1	2	3	2	2	2	1	3	2

OPERATIONAL CLIMATIC DATA SUMMARY

STATION: SINGYE, NORTH KOREA

LOCATION: 3830N 12632E

PREPARED BY: USAFETAC/DOC, DEC 1993

STATION #: 470670

ELEVATION (FEET): 328

PERIOD: 7604-9212

ICAO:

LST = GMT + 9

11. PERCENTAGE FREQUENCY OF OCCURRENCE (% FREQ) OF THUNDERSTORMS:

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
00-02 LST	0	0	0	0	0	1	#	#	0	#	0	0	#
03-05 LST	0	0	0	#	#	#	0	1	#	0	#	0	#
06-08 LST	0	0	0	0	#	0	#	1	0	0	0	#	#
09-11 LST	0	0	0	#	0	#	1	#	#	0	0	0	#
12-14 LST	0	0	0	0	#	0	1	#	0	#	0	#	#
15-17 LST	0	0	0	#	1	#	1	1	#	0	0	0	#
18-20 LST	0	0	0	0	#	1	2	1	1	#	0	0	#
21-23 LST	0	0	0	0	#	1	#	#	#	#	#	0	#
ALL HOURS	0	0	0	#	#	#	1	1	#	#	#	#	#

12. % FREQ RAIN AND/OR DRIZZLE:

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
00-02 LST	1	3	4	8	9	11	19	14	5	4	6	2	7
03-05 LST	1	1	4	10	11	12	18	15	8	6	6	3	8
06-08 LST	1	1	4	11	10	14	23	20	8	6	7	3	9
09-11 LST	1	1	6	10	10	12	25	16	10	4	8	4	9
12-14 LST	1	1	7	10	8	11	22	16	9	5	6	3	8
15-17 LST	1	3	6	9	10	10	20	14	9	5	6	3	8
18-20 LST	1	3	5	8	9	12	21	14	9	5	7	3	8
21-23 LST	1	3	5	8	8	12	19	13	8	4	6	3	7
ALL HOURS	1	2	5	9	9	12	21	15	8	5	6	3	8

13. % FREQ SNOW AND/OR ICE PELLETS:

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
00-02 LST	7	5	3	0	0	0	0	0	0	0	1	5	2
03-05 LST	6	5	3	0	0	0	0	0	0	0	1	4	2
06-08 LST	7	4	3	#	0	0	0	0	0	#	2	6	2
09-11 LST	10	6	4	#	0	0	0	0	0	#	1	6	2
12-14 LST	8	5	2	#	0	0	0	0	0	#	1	6	2
15-17 LST	9	4	2	#	0	0	0	0	0	0	1	5	2
18-20 LST	6	4	1	#	0	0	0	0	0	#	1	4	1
21-23 LST	6	3	1	#	0	0	0	0	0	0	#	4	1
ALL HOURS	7	5	2	#	0	0	0	0	0	#	1	5	2

14. % FREQ OF SURFACE WIND SPEEDS GT 25 KTS. (INCLUDING GUSTS):

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
00-02 LST	#	0	0	#	0	0	0	0	0	#	#	0	#
03-05 LST	0	0	#	#	0	#	0	0	0	0	0	0	#
06-08 LST	0	0	0	0	0	0	0	0	0	0	#	0	#
09-11 LST	#	0	0	0	0	0	0	0	0	0	#	0	#
12-14 LST	0	0	#	#	#	0	0	0	0	#	0	0	#
15-17 LST	0	0	0	0	1	0	0	#	0	0	0	#	#
18-20 LST	0	0	0	#	#	#	0	0	0	0	0	0	#
21-23 LST	0	0	0	0	0	0	0	0	0	#	0	0	#
ALL HOURS	#	0	#	#	#	#	0	#	0	#	#	#	#

OPERATIONAL CLIMATIC DATA SUMMARY

STATION: SINGYE, NORTH KOREA
 LOCATION: 3830N 12632E
 PREPARED BY: USAFETAC/DOC, DEC 1993

STATION #: 470670
 ELEVATION (FEET): 328
 PERIOD: 7604-9212

ICAO:
 LST = GMT + 9

15. % FREQ OF CEILING AND/OR VISIBILITY (CIG/VIS) LT 800/2 MI:

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
00-02 LST	2	1	1	2	2	2	3	1	1	1	1	4	2
03-05 LST	2	2	2	2	3	6	10	5	5	4	4	5	4
06-08 LST	3	3	4	6	10	12	21	15	12	9	5	7	9
09-11 LST	6	5	5	4	5	5	6	6	6	9	7	11	6
12-14 LST	3	3	1	1	1	0	2	#	0	#	3	4	2
15-17 LST	1	1	#	1	#	1	1	#	#	0	#	2	1
18-20 LST	1	#	#	2	1	#	2	#	#	1	1	2	1
21-23 LST	1	#	#	1	1	#	3	1	0	#	#	3	1
ALL HOURS	2	2	2	3	3	3	6	4	3	3	3	5	3

16. % FREQ OF CIG/VIS LT 500/1.5 MI:

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
00-02 LST	2	1	1	2	1	2	3	1	1	1	1	4	2
03-05 LST	2	2	2	2	3	6	9	5	5	4	4	5	4
06-08 LST	2	3	4	6	9	12	21	15	11	9	5	7	9
09-11 LST	5	5	5	4	4	4	6	5	6	9	6	10	6
12-14 LST	3	3	1	#	1	0	2	#	0	#	2	4	1
15-17 LST	1	#	#	1	#	1	1	#	#	0	#	2	1
18-20 LST	1	#	#	1	1	#	1	#	#	#	1	2	1
21-23 LST	1	#	#	1	1	#	2	1	0	#	#	3	1
ALL HOURS	2	2	2	2	2	3	6	3	3	3	2	5	3

17. % FREQ OF CIG/VIS LT 300/1 MI:

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
00-02 LST	1	1	1	1	1	1	2	1	#	1	1	4	1
03-05 LST	2	2	2	2	3	4	8	5	4	3	3	5	4
06-08 LST	2	3	4	6	7	12	20	14	11	9	5	6	8
09-11 LST	4	5	5	4	3	3	4	5	6	8	6	9	5
12-14 LST	3	2	#	#	#	0	1	0	0	#	2	4	1
15-17 LST	1	0	0	#	#	#	#	0	0	0	#	2	#
18-20 LST	1	#	#	1	1	0	1	#	#	#	#	2	1
21-23 LST	1	#	#	1	#	#	2	#	0	0	#	3	1
ALL HOURS	2	2	2	2	2	3	5	3	3	3	2	4	3

18. % FREQ OF CIG/VIS LT 100/.25 MI:

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
00-02 LST	1	1	#	1	#	#	1	#	#	#	1	3	1
03-05 LST	1	1	1	2	2	3	6	2	3	3	2	3	2
06-08 LST	1	2	2	5	5	8	13	12	8	5	2	3	6
09-11 LST	3	2	3	4	2	2	2	1	5	6	4	6	3
12-14 LST	1	#	0	0	#	0	#	0	0	#	1	2	#
15-17 LST	1	0	0	0	#	0	0	0	0	0	0	1	#
18-20 LST	1	#	0	0	#	0	0	#	0	#	#	1	#
21-23 LST	0	#	#	#	0	0	1	#	0	0	#	2	#
ALL HOURS	1	1	1	1	1	2	3	2	2	2	1	2	2

SOURCE(S): 1. USAFETAC DATSAV2 SURFACE, APR 76 - DEC 92, 3 HOURLY OBS.
 2.

REMARKS: * = DATA NOT AVAILABLE # = LT 0.5 DAY, OR 0.05 INCH, OR 0.5%, AS APPLICABLE
 \$ = % CALM GT PVLGN DRCTN
 ‡ = BASED ONLY ON AVAILABLE DATA, I.E. LT 24 HRS/DAY, OR LT 12 MONTH/YR
 ANNUAL TOTALS MAY NOT EQUAL THE SUM OF MONTHLY TOTALS DUE TO ROUNDING

OPERATIONAL CLIMATIC DATA SUMMARY

STATION: SINUIJU, NORTH KOREA
 LOCATION: 4006N 12423E
 PREPARED BY: USAFETAC/DOC, MAR 1994

STATION #: 470350
 ELEVATION (FEET): 23
 PERIOD: 7301-9212

ICAO:
 LST = GMT + 9

SOURCE NO.	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
1. TEMPERATURE (F)													
EXTREME MAX	1	48	54	68	81	86	95	97	95	91	83	72	52 97
MEAN DAILY MAX	1	26	32	44	57	67	74	79	82	74	61	45	31 56
MEAN	1	19	25	37	49	60	68	74	75	65	53	37	25 49
MEAN DAILY MIN	1	11	17	29	41	52	62	69	69	57	44	30	17 42
EXTREME MIN	1	-10	-1	9	27	37	48	54	54	40	25	5	-4 -10
# DAYS GE 90	1	0	0	0	0	0	#	1	2	#	0	0	0 4
# DAYS LE 32	1	31	28	22	2	0	0	0	0	2	18	29	131
# DAYS LE 0	1	3	#	0	0	0	0	0	0	0	0	1	4
2. PRECIPITATION (INCHES)													
MAXIMUM	2	.8	1.5	2.3	6.2	7.6	10.8	16.5	23.4	13.5	3.9	3.8	2.1 53.5
MEAN	2	.3	.3	1.1	2.0	3.4	4.5	10.4	11.0	4.1	2.1	1.2	.8 41.3
MINIMUM	2	#	#	.1	.4	1.3	.3	4.4	1.8	1.8	.5	.1	# 31.0
MAX 24 HR	2	.4	1.3	.6	1.7	.7	4.3	9.1	16.3	4.3	2.1	1.5	1.2 16.3
# DAYS W/PRECIP	1	6	5	7	9	10	14	16	11	8	7	7	5 101
# DAYS GE 0.5		*	*	*	*	*	*	*	*	*	*	*	*
3. SNOWFALL (INCHES)													
MEAN		*	*	*	*	*	*	*	*	*	*	*	*
MAXIMUM		*	*	*	*	*	*	*	*	*	*	*	*
MAX 24 HR		*	*	*	*	*	*	*	*	*	*	*	*
# DAYS SNOWFALL	1	5	4	3	0	0	0	0	0	0	2	4	18
# DAYS GE 1.5		*	*	*	*	*	*	*	*	*	*	*	*
4. MEAN RELATIVE HUMIDITY (%) / VAPOR PRESSURE (IN HG) / DEWPOINT (F)													
RH (6 LST)	1	70	69	72	79	84	90	93	91	87	79	74	70 80
RH (15 LST)	1	48	43	45	49	55	65	74	66	55	50	51	50 54
VAPOR PRESS	1	.07	.09	.14	.23	.36	.55	.74	.72	.48	.29	.16	.09 .33
DEWPOINT	1	8	12	23	36	49	61	69	68	56	41	26	13 39
5. SURFACE WINDS 16 PT/KTS / 99.95% HIGHEST PRESSURE ALTITUDE (FEET)													
FVLG DRCTN	1	NE	NNW	\$NE	\$SW	\$SW	\$SW	\$S	\$NE	NE	NE	NE	\$NE
MEAN SPEED													
(FVLG DRCTN)	1	6	10	5	7	7	6	5	5	5	5	5	6
MEAN SPEED													
(ALL OBS)	1	6	6	6	6	5	4	4	4	5	6	6	5
MAX PEAK GUST	1	*	*	*	*	*	*	*	*	*	*	*	*
PRESSURE ALT	1	213	219	415	735	747	659	697	735	437	303	275	378 747
6. MEAN CLOUD COVER (8THS) / THUNDERSTORMS / FOG / BLOWING SAND & DUST (BNBD)													
CLD COVER	1	2	3	4	4	5	6	6	5	4	3	3	4
DAYS TSTMS	1	#	0	#	#	1	1	2	1	2	1	#	9
DAYS FOG LT 7	1	17	13	16	15	15	20	21	18	13	13	13	188
DAYS BNBD LT 7	1	#	0	#	#	#	0	0	#	0	0	0	1

OPERATIONAL CLIMATIC DATA SUMMARY

STATION: **SINUJU, NORTH KOREA**
 LOCATION: **4006N 12423E**
 PREPARED BY: **USAFETAC/DOC, MAR 1994**

STATION #: **470350**
 ELEVATION (FEET): **23**
 PERIOD: **7301-9212**

ICAO:
 LST = GMT + 9

7. PERCENTAGE FREQUENCY OF OCCURRENCE (% FREQ) OF CEILING AND/OR VISIBILITY (CIG/VIS) LT 3000/3 STATUTE MILES (MI) (SOURCE NO. 1)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
00-02 LST	19	19	20	23	26	39	56	39	23	25	25	21	28
03-05 LST	17	18	23	25	28	48	66	45	27	27	27	20	31
06-08 LST	20	20	31	38	46	66	78	61	40	30	29	23	40
09-11 LST	46	40	43	41	42	58	73	56	43	38	38	43	47
12-14 LST	29	20	25	29	33	43	61	49	32	27	29	29	34
15-17 LST	17	13	21	27	32	41	53	43	32	27	25	19	29
18-20 LST	23	14	16	23	30	34	47	32	24	21	27	27	27
21-23 LST	20	16	18	21	26	35	48	33	21	22	24	24	26
ALL HOURS	24	20	25	28	33	46	60	45	30	27	28	26	33

8. % FREQ OF CIG/VIS LT 1500/3 MI (SOURCE NO. 1)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
00-02 LST	13	11	12	10	11	17	28	14	9	7	10	13	13
03-05 LST	11	10	15	12	13	25	33	18	10	9	11	11	15
06-08 LST	16	14	22	21	28	43	56	37	20	14	14	13	25
09-11 LST	41	34	35	26	21	31	38	26	23	22	26	37	30
12-14 LST	24	13	13	9	9	12	16	10	5	6	14	20	13
15-17 LST	12	6	7	6	6	7	12	7	4	3	7	10	7
18-20 LST	17	8	6	6	6	9	12	6	4	4	12	17	9
21-23 LST	15	9	11	9	10	12	20	9	5	5	10	15	11
ALL HOURS	19	13	15	12	13	20	27	16	10	9	13	17	15

9. % FREQ OF CIG/VIS LT 1000/2 MI (SOURCE NO. 1)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
00-02 LST	4	2	4	3	3	6	10	5	2	2	2	3	4
03-05 LST	3	4	6	4	4	9	15	8	3	3	3	4	5
06-08 LST	5	4	10	9	12	21	33	19	12	8	5	5	12
09-11 LST	17	11	12	7	6	11	16	11	11	11	11	16	12
12-14 LST	7	3	4	2	2	2	5	2	1	1	3	7	3
15-17 LST	3	1	2	1	1	1	3	2	1	#	2	4	2
18-20 LST	4	1	2	2	2	2	4	1	#	1	4	5	2
21-23 LST	4	1	3	2	3	4	7	2	#	#	2	3	3
ALL HOURS	6	4	5	4	4	7	11	6	4	3	4	6	5

10. % FREQ OF CIG/VIS LT 200/0.5 MI (SOURCE NO. 1)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
00-02 LST	1	#	1	1	0	1	3	1	1	1	1	1	1
03-05 LST	#	1	2	2	1	2	5	2	2	1	1	2	2
06-08 LST	1	#	3	3	5	6	14	9	8	4	2	2	5
09-11 LST	2	2	3	2	1	2	3	2	4	5	2	3	3
12-14 LST	0	1	#	0	#	#	#	0	0	0	#	1	#
15-17 LST	#	#	#	#	0	#	1	#	#	0	#	0	#
18-20 LST	#	#	0	#	0	#	#	0	0	0	1	0	#
21-23 LST	1	#	#	0	#	#	1	0	0	0	#	0	#
ALL HOURS	1	1	1	1	1	2	3	2	2	1	1	1	1

OPERATIONAL CLIMATIC DATA SUMMARY

STATION: SIMUIJU, NORTH KOREA

STATION #: 470350

ICAO:

LOCATION: 4006N 12423E

ELEVATION (FEET): 23

LST = GMT + 9

PREPARED BY: USAFETAC/DOC, MAR 1994

PERIOD: 7301-9212

11. PERCENTAGE FREQUENCY OF OCCURRENCE (% FREQ) OF THUNDERSTORMS:

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
00-02 LST	0	0	0	0	0	#	1	1	1	#	#	0	#
03-05 LST	0	0	0	1	1	1	2	1	1	#	#	0	#
06-08 LST	0	0	0	0	1	#	1	1	1	0	0	0	#
09-11 LST	0	0	0	0	0	1	1	#	1	#	0	0	#
12-14 LST	0	0	0	#	1	1	#	0	1	#	#	0	#
15-17 LST	0	0	0	1	0	1	1	1	1	1	0	0	#
18-20 LST	#	0	#	#	0	1	1	1	2	#	#	0	1
21-23 LST	0	0	0	#	#	1	1	1	2	0	0	0	#
ALL HOURS	#	0	#	#	#	1	1	1	1	#	#	0	#

12. % FREQ RAIN AND/OR DRIZZLE:

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
00-02 LST	#	1	4	7	12	15	18	9	6	5	5	2	7
03-05 LST	#	1	3	8	10	16	21	11	6	6	5	2	7
06-08 LST	#	1	4	9	11	16	24	12	8	5	5	1	8
09-11 LST	0	1	3	9	11	14	23	14	7	4	5	2	8
12-14 LST	1	1	3	7	10	11	18	13	7	5	6	2	7
15-17 LST	1	1	4	9	10	13	18	12	7	7	5	2	7
18-20 LST	1	1	4	10	10	12	16	12	7	5	5	1	7
21-23 LST	1	1	4	9	11	12	17	10	7	5	4	2	7
ALL HOURS	1	1	4	9	11	14	19	12	7	5	5	2	7

13. % FREQ SNOW AND/OR ICE PELLETS:

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
00-02 LST	4	5	3	#	0	0	0	0	0	0	1	3	1
03-05 LST	5	4	2	#	0	0	0	0	0	#	1	3	1
06-08 LST	5	4	2	#	0	0	#	0	0	#	1	3	1
09-11 LST	6	4	2	#	0	0	0	0	0	1	1	4	2
12-14 LST	4	4	3	#	0	0	0	0	0	#	1	4	1
15-17 LST	4	2	3	#	0	0	0	0	0	0	3	3	1
18-20 LST	4	4	3	0	0	0	0	0	0	#	2	3	1
21-23 LST	3	4	3	0	0	0	0	0	0	#	1	3	1
ALL HOURS	4	4	2	#	0	0	#	0	0	#	1	3	1

14. % FREQ OF SURFACE WIND SPEEDS GT 25 KTS. (INCLUDING GUSTS):

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
00-02 LST	1	1	1	#	0	#	#	#	#	#	1	1	#
03-05 LST	#	1	1	0	0	#	0	0	#	#	#	1	#
06-08 LST	1	0	#	#	0	0	#	#	1	#	#	1	#
09-11 LST	1	1	1	1	1	#	1	1	#	1	1	0	1
12-14 LST	2	2	2	2	1	#	0	#	#	2	2	1	1
15-17 LST	1	2	3	1	2	0	#	0	1	1	1	1	1
18-20 LST	1	1	2	1	2	#	#	1	0	1	0	1	1
21-23 LST	1	2	1	1	#	0	#	#	1	#	1	0	1
ALL HOURS	1	1	1	1	1	#	#	#	#	1	1	1	1

OPERATIONAL CLIMATIC DATA SUMMARY

STATION: SINSUJU, NORTH KOREA
 LOCATION: 4006N 12423E
 PREPARED BY: USAFETAC/DOC, MAR 1994

STATION #: 470350
 ELEVATION (FEET): 23
 PERIOD: 7301-9212

ICAO:
 LST = GMT + 9

15. % FREQ OF CEILING AND/OR VISIBILITY (CIG/VIS) LT 800/2 MI:

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
00-02 LST	4	2	4	3	3	6	10	5	2	2	2	3	4
03-05 LST	3	4	6	4	4	9	15	8	3	3	3	4	5
06-08 LST	5	4	10	9	12	21	33	19	12	8	5	5	12
09-11 LST	17	11	12	7	6	11	16	11	11	11	11	16	12
12-14 LST	7	3	4	2	2	2	5	2	1	1	3	7	3
15-17 LST	3	1	2	1	1	1	3	2	1	#	2	4	2
18-20 LST	4	1	2	2	2	2	4	1	#	1	4	5	2
21-23 LST	4	1	3	2	3	4	7	2	#	#	2	3	3
ALL HOURS	6	4	5	4	4	7	11	6	4	3	4	6	5

16. % FREQ OF CIG/VIS LT 500/1.5 MI:

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
00-02 LST	3	1	3	3	3	5	8	4	1	2	2	2	3
03-05 LST	3	3	5	3	3	7	13	7	3	3	3	3	5
06-08 LST	5	3	8	8	10	18	28	17	11	7	4	4	10
09-11 LST	15	10	10	6	5	8	12	8	9	9	10	15	10
12-14 LST	7	3	3	#	1	1	4	1	1	1	3	6	2
15-17 LST	3	1	1	1	0	1	2	#	1	#	1	4	1
18-20 LST	4	1	2	1	1	2	2	1	#	#	3	4	2
21-23 LST	3	1	3	1	2	3	4	1	#	#	1	2	2
ALL HOURS	5	3	4	3	3	6	9	5	3	3	3	5	4

17. % FREQ OF CIG/VIS LT 300/1 MI:

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
00-02 LST	1	1	2	1	1	2	4	1	1	1	1	1	1
03-05 LST	1	1	3	2	2	4	7	4	2	2	1	2	3
06-08 LST	2	1	5	5	8	11	19	12	8	6	3	3	7
09-11 LST	5	3	5	3	3	4	6	4	6	6	4	7	5
12-14 LST	2	1	1	#	1	1	1	0	0	0	1	2	1
15-17 LST	1	#	1	#	#	1	1	#	#	#	1	1	1
18-20 LST	1	#	1	1	0	1	1	#	0	#	2	1	1
21-23 LST	2	#	1	#	1	1	1	1	0	0	#	1	1
ALL HOURS	2	1	2	2	2	3	5	3	2	2	2	2	2

18. % FREQ OF CIG/VIS LT 100/.25 MI:

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
00-02 LST	1	#	1	1	0	#	1	#	1	1	1	1	1
03-05 LST	#	#	1	1	1	1	3	1	1	1	1	1	1
06-08 LST	1	0	2	3	3	5	9	5	5	3	1	1	3
09-11 LST	2	#	2	1	1	1	2	1	2	3	1	2	1
12-14 LST	0	#	0	0	#	0	#	0	0	0	#	1	#
15-17 LST	#	0	#	#	0	0	0	#	#	0	#	#	#
18-20 LST	#	#	#	0	0	#	0	0	0	0	0	0	#
21-23 LST	#	#	#	0	0	#	1	#	0	0	#	0	#
ALL HOURS	#	#	1	1	1	1	2	1	1	1	1	1	1

SOURCE(S): 1. USAFETAC DATSAV2 SURFACE, JAN 73 - DEC 92, 3 HOURLY OBS.
 2. NATIONAL INTELLIGENCE SURVEY, 1969, 4-19 YEARS OF RECORD.

REMARKS: * = DATA NOT AVAILABLE # = LT 0.5 DAY, OR 0.05 INCH, OR 0.5%, AS APPLICABLE
 \$ = % CALM GT PVLGN DRCTN
 ‡ = BASED ONLY ON AVAILABLE DATA, I.E. LT 24 HRS/DAY, OR LT 12 MONTH/YR
 ANNUAL TOTALS MAY NOT EQUAL THE SUM OF MONTHLY TOTALS DUE TO ROUNDING

OPERATIONAL CLIMATIC DATA SUMMARY

STATION: SUPUNG, NORTH KOREA
 LOCATION: 4027N 12456E
 PREPARED BY: USAFETAC/DOC, MAR 1994

STATION #: 470280
 ELEVATION (FEET): 272
 PERIOD: 7604-9212

ICAO:
 LST = GMT + 9

SOURCE NO.	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
1. TEMPERATURE (F)													
EXTREME MAX	1	42	56	68	80	93	94	95	98	90	79	68	50 98
MEAN DAILY MAX	1	24	31	44	59	70	77	81	82	73	61	43	30 56
MEAN	1	15	22	35	49	60	68	74	74	63	51	35	23 47
MEAN DAILY MIN	1	5	12	26	39	50	60	67	66	54	41	27	14 38
EXTREME MIN	1	-14	-13	0	23	35	45	52	50	35	23	5	-7 -14
# DAYS GE 90	1	0	0	0	0	#	#	2	3	#	0	0	0 6
# DAYS LE 32	1	31	28	26	5	0	0	0	0	0	5	22	30 146
# DAYS LE 0	1	10	4	#	0	0	0	0	0	0	0	0	3 16
2. PRECIPITATION (INCHES)													
MAXIMUM		*	*	*	*	*	*	*	*	*	*	*	*
MEAN		*	*	*	*	*	*	*	*	*	*	*	*
MINIMUM		*	*	*	*	*	*	*	*	*	*	*	*
MAX 24 HR		*	*	*	*	*	*	*	*	*	*	*	*
# DAYS W/PRECIP	1	6	5	6	8	9	10	12	10	7	6	7	6 92
# DAYS GE 0.5		*	*	*	*	*	*	*	*	*	*	*	*
3. SNOWFALL (INCHES)													
MEAN		*	*	*	*	*	*	*	*	*	*	*	*
MAXIMUM		*	*	*	*	*	*	*	*	*	*	*	*
MAX 24 HR		*	*	*	*	*	*	*	*	*	*	*	*
# DAYS SNOWFALL	1	6	4	3	1	0	0	0	0	0	2	5	20
# DAYS GE 1.5		*	*	*	*	*	*	*	*	*	*	*	*
4. MEAN RELATIVE HUMIDITY (%) / VAPOR PRESSURE (IN HG) / DEWPOINT (F)													
RH (6 LST)	1	74	73	74	78	85	91	94	93	91	82	77	75 82
RH (15 LST)	1	51	44	40	40	45	56	68	64	55	46	51	53 51
VAPOR PRESS	1	.07	.08	.12	.21	.34	.52	.71	.70	.45	.27	.15	.09 .31
DEWPOINT	1	5	10	21	33	46	59	68	67	55	39	25	13 37
5. SURFACE WINDS 16 PT/KTS / 99.95% HIGHEST PRESSURE ALTITUDE (FEET)													
PVLG DRCTN	1	\$S	\$S	\$S	\$S	\$S	\$S	\$S	\$S	\$S	SE	SE	SE \$S
MEAN SPEED													
(PVLG DRCTN)	1	5	4	4	4	4	4	4	4	4	4	4	5 4
MEAN SPEED													
(ALL OBS)	1	3	3	3	3	3	2	2	2	3	4	4	4 3
MAX PEAK GUST	1	*	*	*	*	*	*	*	*	*	*	*	*
PRESSURE ALT	1	468	431	627	984	871	927	946	918	674	552	571	580 984
6. MEAN CLOUD COVER (8THS) / THUNDERSTORMS / FOG / BLOWING SAND & DUST (BNBD)													
CLD COVER	1	2	3	3	4	5	5	6	5	4	3	3	3 4
DAYS TSTMS	1	#	0	#	#	2	2	3	2	2	1	#	0 12
DAYS FOG LT 7	1	5	4	6	8	11	13	16	13	10	7	4	4 101
DAYS BNBD LT 7	1	0	0	#	#	#	0	#	#	0	#	#	0 1

OPERATIONAL CLIMATIC DATA SUMMARY

STATION: SUPUNG, NORTH KOREA
 LOCATION: 4027N 12456E
 PREPARED BY: USAFETAC/DOC, MAR 1994

STATION #: 470280
 ELEVATION (FEET): 272
 PERIOD: 7604-9212

ICAO:
 LST = GMT + 9

7. PERCENTAGE FREQUENCY OF OCCURRENCE (% FREQ) OF CEILING AND/OR VISIBILITY (CIG/VIS) LT 3000/3 STATUTE MILES (MI) (SOURCE NO. 1)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
00-02 LST	13	12	14	19	21	23	37	28	17	15	20	17	20
03-05 LST	15	15	15	22	26	34	49	40	26	21	22	18	25
06-08 LST	20	16	18	29	32	51	64	59	49	27	24	22	34
09-11 LST	27	13	18	25	32	41	56	44	41	28	30	30	32
12-14 LST	17	11	15	23	24	29	45	35	22	19	23	19	23
15-17 LST	15	11	14	20	22	30	42	34	20	16	24	17	22
18-20 LST	13	9	12	18	22	24	36	27	20	15	20	17	20
21-23 LST	10	9	11	19	21	22	33	28	17	11	20	15	18
ALL HOURS	16	12	15	22	25	32	45	37	27	19	23	19	24

8. % FREQ OF CIG/VIS LT 1500/3 MI (SOURCE NO. 1)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
00-02 LST	3	2	3	4	4	4	5	3	2	2	3	1	3
03-05 LST	5	3	5	5	9	12	15	13	11	6	5	5	8
06-08 LST	8	4	7	10	17	27	33	30	27	11	8	8	16
09-11 LST	14	4	7	8	15	18	19	17	17	11	11	12	13
12-14 LST	6	2	4	3	5	5	6	5	2	2	3	5	4
15-17 LST	3	1	2	2	3	3	5	3	1	1	3	2	3
18-20 LST	2	2	1	2	2	3	2	2	#	1	2	2	2
21-23 LST	1	2	2	2	2	2	2	2	1	1	3	1	2
ALL HOURS	5	2	4	4	7	9	11	9	8	4	5	5	6

9. % FREQ OF CIG/VIS LT 1000/2 MI (SOURCE NO. 1)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
00-02 LST	2	1	1	2	2	3	2	2	1	2	2	1	2
03-05 LST	2	2	3	3	6	9	9	10	6	3	3	2	5
06-08 LST	4	3	4	8	12	21	26	24	18	7	4	3	11
09-11 LST	4	2	5	5	10	10	10	7	6	7	6	4	6
12-14 LST	2	1	2	1	1	2	2	1	1	#	1	2	1
15-17 LST	1	#	1	1	1	1	2	#	0	#	1	1	1
18-20 LST	1	1	#	1	1	#	#	#	0	#	1	#	1
21-23 LST	1	#	#	1	1	1	#	#	#	0	1	1	0
ALL HOURS	2	1	2	3	4	6	6	6	4	2	2	2	3

10. % FREQ OF CIG/VIS LT 200/0.5 MI (SOURCE NO. 1)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
00-02 LST	1	#	#	1	1	1	#	1	1	1	2	0	1
03-05 LST	2	1	1	2	5	5	4	6	4	2	2	1	3
06-08 LST	1	1	3	4	8	14	14	16	11	4	3	2	7
09-11 LST	2	1	4	3	4	4	3	2	4	4	4	2	3
12-14 LST	1	#	#	0	#	#	1	#	0	#	#	1	#
15-17 LST	#	#	0	#	#	0	#	0	0	0	#	#	#
18-20 LST	1	#	0	#	#	0	#	0	0	#	#	#	#
21-23 LST	#	0	#	#	0	0	#	#	0	0	#	#	#
ALL HOURS	1	1	1	1	2	3	3	3	2	1	2	1	2

OPERATIONAL CLIMATIC DATA SUMMARY

STATION: SUPUNG, NORTH KOREA

LOCATION: 4027N 12456E

PREPARED BY: USAFETAC/DOC, MAR 1994

STATION #: 470280

ELEVATION (FEET): 272

PERIOD: 7604-9212

ICAO:

LST = GMT + 9

11. PERCENTAGE FREQUENCY OF OCCURRENCE (% FREQ) OF THUNDERSTORMS:

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
00-02 LST	0	0	0	0	1	1	1	2	1	0	0	0	#
03-05 LST	0	0	0	#	1	1	2	1	1	1	#	0	#
06-08 LST	0	0	0	#	1	#	1	1	1	#	0	0	#
09-11 LST	0	0	#	#	#	#	1	#	1	#	#	0	#
12-14 LST	#	0	0	#	#	#	#	#	1	#	#	0	#
15-17 LST	0	0	0	0	1	1	2	1	2	1	#	0	1
18-20 LST	0	0	0	0	2	3	2	2	2	1	#	0	1
21-23 LST	0	0	0	#	1	2	2	1	1	1	0	0	1
ALL HOURS	#	0	#	#	1	1	1	1	1	1	#	0	1

12. % FREQ RAIN AND/OR DRIZZLE:

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
00-02 LST	#	#	3	6	8	9	14	8	6	4	5	1	5
03-05 LST	1	#	3	7	8	10	16	9	6	4	6	2	6
06-08 LST	#	1	3	8	9	10	14	10	6	5	6	2	6
09-11 LST	#	#	3	7	9	10	17	11	6	4	5	2	6
12-14 LST	1	#	3	7	8	7	14	11	7	5	5	1	6
15-17 LST	1	1	3	7	8	10	13	10	7	5	6	1	6
18-20 LST	1	#	4	7	8	10	12	13	8	6	7	1	7
21-23 LST	#	1	2	8	9	8	14	11	6	4	5	1	6
ALL HOURS	1	1	3	7	9	10	14	10	7	5	6	1	6

13. % FREQ SNOW AND/OR ICE PELLETS:

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
00-02 LST	6	6	2	1	0	0	0	0	0	#	1	4	2
03-05 LST	4	6	2	0	0	0	0	0	0	#	2	4	2
06-08 LST	5	5	3	1	0	0	0	0	0	#	2	5	2
09-11 LST	9	2	3	1	0	0	0	0	0	1	2	7	2
12-14 LST	8	4	3	#	0	0	0	0	#	#	1	6	2
15-17 LST	5	4	3	#	0	0	0	0	0	#	2	5	2
18-20 LST	5	4	3	0	0	0	0	0	0	#	2	4	1
21-23 LST	4	4	3	#	0	0	0	0	0	#	1	3	1
ALL HOURS	6	4	3	#	0	0	0	0	#	#	2	5	2

14. % FREQ OF SURFACE WIND SPEEDS GT 25 KTS. (INCLUDING GUSTS):

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
00-02 LST	0	0	0	0	0	0	0	#	#	0	0	0	#
03-05 LST	0	0	0	#	0	0	0	0	0	0	0	#	#
06-08 LST	0	0	0	#	0	0	0	0	0	0	0	#	#
09-11 LST	0	0	0	0	0	0	0	0	0	0	0	0	0
12-14 LST	#	0	0	0	#	0	0	0	0	0	0	0	#
15-17 LST	0	0	#	0	0	0	0	0	0	0	0	0	#
18-20 LST	0	0	0	#	0	0	0	0	0	0	0	0	#
21-23 LST	0	0	0	0	0	#	0	0	0	0	#	#	#
ALL HOURS	#	0	#	#	#	#	0	#	#	0	#	#	#

OPERATIONAL CLIMATIC DATA SUMMARY

STATION: SUPUNG, NORTH KOREA
 LOCATION: 4027N 12456E
 PREPARED BY: USAFETAC/DOC, MAR 1994

STATION #: 470280
 ELEVATION (FEET): 272
 PERIOD: 7604-9212

ICAO:
 LST = GMT + 9

15. % FREQ OF CEILING AND/OR VISIBILITY (CIG/VIS) LT 800/2 MI:

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
00-02 LST	2	1	1	2	2	3	2	2	1	2	2	1	2
03-05 LST	2	2	3	3	6	9	9	10	6	3	3	2	5
06-08 LST	4	3	4	8	12	21	26	24	18	7	4	3	11
09-11 LST	4	2	5	5	10	10	10	7	6	7	6	4	6
12-14 LST	2	1	2	1	1	2	2	1	1	#	1	2	1
15-17 LST	1	#	1	1	1	1	2	#	0	#	1	1	1
18-20 LST	1	1	#	1	1	#	#	#	0	#	1	#	1
21-23 LST	1	#	#	1	1	1	#	#	#	0	1	1	0
ALL HOURS	2	1	2	3	4	6	6	6	4	2	2	2	3

16. % FREQ OF CIG/VIS LT 500/1.5 MI:

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
00-02 LST	1	1	1	2	2	3	1	2	1	1	2	#	1
03-05 LST	2	2	2	3	6	9	7	7	6	3	2	2	4
06-08 LST	2	2	4	7	10	18	20	20	15	5	4	3	9
09-11 LST	2	2	5	4	9	8	8	4	5	6	5	3	5
12-14 LST	1	1	2	#	1	2	2	1	1	#	1	2	1
15-17 LST	1	#	#	#	1	1	1	#	0	#	1	1	1
18-20 LST	1	1	0	1	1	#	#	#	0	#	1	#	#
21-23 LST	1	#	#	#	#	1	#	#	0	0	1	1	#
ALL HOURS	1	1	2	2	4	5	5	4	3	2	2	1	3

17. % FREQ OF CIG/VIS LT 300/1 MI:

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
00-02 LST	1	1	#	1	2	2	1	1	1	1	2	#	1
03-05 LST	2	1	2	2	5	6	5	6	5	2	2	2	3
06-08 LST	2	2	4	5	9	15	16	17	13	4	3	3	8
09-11 LST	2	1	4	4	5	5	4	3	4	5	4	2	4
12-14 LST	1	#	1	0	1	1	1	#	#	#	1	1	1
15-17 LST	#	#	0	#	#	#	1	0	0	0	#	#	#
18-20 LST	1	#	0	#	1	0	#	0	0	#	#	#	#
21-23 LST	#	#	#	#	#	#	#	#	0	0	1	#	#
ALL HOURS	1	1	1	2	3	4	3	3	3	1	2	1	2

18. % FREQ OF CIG/VIS LT 100/.25 MI:

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
00-02 LST	#	#	#	#	0	#	0	#	#	#	1	0	#
03-05 LST	1	#	1	1	2	3	1	2	1	1	2	#	1
06-08 LST	1	#	1	3	5	7	7	10	5	2	2	1	4
09-11 LST	1	#	2	2	1	2	1	2	1	2	2	1	1
12-14 LST	1	0	0	0	0	#	0	0	0	#	0	1	#
15-17 LST	#	0	0	0	0	0	#	0	0	0	0	#	#
18-20 LST	#	#	0	0	0	0	0	0	0	0	0	0	#
21-23 LST	#	0	#	0	0	0	0	0	0	0	#	0	#
ALL HOURS	1	#	1	1	1	2	1	2	1	1	1	#	1

SOURCE(S): 1. USAFETAC DATSAV2 SURFACE, APR 76 - DEC 92, 3 HRLY OBS.
 2.

REMARKS: * = DATA NOT AVAILABLE # = LT 0.5 DAY, OR 0.05 INCH, OR 0.5%, AS
 APPLICABLE \$ = % CALM GT PVLGN DRCTN
 ‡ = BASED ONLY ON AVAILABLE DATA, I.E. LT 24 HRS/DAY, OR LT 12 MONTH/YR
 ANNUAL TOTALS MAY NOT EQUAL THE SUM OF MONTHLY TOTALS DUE TO ROUNDING

OPERATIONAL CLIMATIC DATA SUMMARY

STATION: YANGDOK, NORTH KOREA
 LOCATION: 3910N 12650E
 PREPARED BY: USAFETAC/DOC, DEC 1993

STATION #: 470520
 ELEVATION (FEET): 915
 PERIOD: 7604-9212

ICAO:
 LST = GMT + 9

	SOURCE NO.	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
1. TEMPERATURE (F)														
EXTREME MAX	1	50	58	67	83	92	94	95	93	86	79	70	54	95
MEAN DAILY MAX	1	25	31	43	58	69	76	79	79	71	61	44	31	56
MEAN	1	15	21	34	47	58	66	72	72	61	49	35	23	46
MEAN DAILY MIN	1	3	10	24	35	46	57	65	64	52	38	25	12	36
EXTREME MIN	1	-20	-14	-3	20	30	41	45	46	31	13	1	-16	-20
# DAYS GE 90	1	0	0	0	0	#	#	1	1	0	0	0	0	3
# DAYS LE 32	1	31	28	28	11	1	0	0	0	#	8	23	30	160
# DAYS LE 0	1	14	7	#	0	0	0	0	0	0	0	0	5	26
2. PRECIPITATION (INCHES)														
MAXIMUM		*	*	*	*	*	*	*	*	*	*	*	*	*
MEAN		*	*	*	*	*	*	*	*	*	*	*	*	*
MINIMUM		*	*	*	*	*	*	*	*	*	*	*	*	*
MAX 24 HR		*	*	*	*	*	*	*	*	*	*	*	*	*
# DAYS W/PRECIP	1	9	7	7	8	8	10	14	11	7	6	8	9	103
# DAYS GE 0.5		*	*	*	*	*	*	*	*	*	*	*	*	*
3. SNOWFALL (INCHES)														
MEAN		*	*	*	*	*	*	*	*	*	*	*	*	*
MAXIMUM		*	*	*	*	*	*	*	*	*	*	*	*	*
MAX 24 HR		*	*	*	*	*	*	*	*	*	*	*	*	*
# DAYS SNOWFALL	1	9	6	3	0	0	0	0	0	0	2	7	26	
# DAYS GE 1.5		*	*	*	*	*	*	*	*	*	*	*	*	*
4. MEAN RELATIVE HUMIDITY (%) / VAPOR PRESSURE (IN HG) / DEWPOINT (F)														
RH (6 LST)	1	87	88	89	88	88	91	93	93	94	93	88	89	90
RH (15 LST)	1	62	57	51	43	42	54	68	65	57	49	56	62	56
VAPOR PRESS	1	.08	.10	.14	.21	.31	.48	.66	.65	.44	.27	.17	.11	.30
DEWPOINT	1	9	14	25	34	45	57	66	65	54	40	28	17	38
5. SURFACE WINDS 16 PT/KTS / 99.95% HIGHEST PRESSURE ALTITUDE (FEET)														
PVLG DRCTN	1	\$NW	\$NW	\$NW	\$NW	\$NW	\$SE	\$SE	\$SE	\$SE	\$NW	\$NW	\$NW	\$NW
MEAN SPEED														
(PVLG DRCTN)	1	6	6	7	7	7	5	5	5	5	6	6	6	6
MEAN SPEED														
(ALL OBS)	1	2	3	3	3	3	3	2	2	2	2	2	2	2
MAX PEAK GUST	1	*	*	*	*	*	*	*	*	*	*	*	*	*
PRESSURE ALT	1	1167	1112	1392	1599	1476	1580	1514	1769	1392	1401	1186	1158	1769
6. MEAN CLOUD COVER (8THS) / THUNDERSTORMS / FOG / BLOWING SAND & DUST (BNBD)														
CLD COVER	1	3	3	4	4	5	6	6	6	5	4	4	4	4
DAYS TSTMS	1	0	#	0	#	1	1	2	2	1	#	#	#	8
DAYS FOG LT 7	1	1	1	2	4	5	7	9	10	13	10	5	2	68
DAYS BNBD LT 7	1	0	0	#	#	#	0	#	#	#	#	0	#	1

OPERATIONAL CLIMATIC DATA SUMMARY

STATION: YANGDOK, NORTH KOREA
 LOCATION: 3910N 12650E
 PREPARED BY: USAFETAC/DOC, DEC 1993

STATION #: 470520
 ELEVATION (FEET): 915
 PERIOD: 7604-9212

ICAO:
 LST = GMT + 9

7. PERCENTAGE FREQUENCY OF OCCURRENCE (% FREQ) OF CEILING AND/OR VISIBILITY (CIG/VIS) LT 3000/3 STATUTE MILES (MI) (SOURCE NO. 1)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
00-02 LST	23	22	22	26	28	42	61	49	33	28	36	32	33
03-05 LST	23	24	25	30	34	51	72	64	45	31	40	33	39
06-08 LST	24	26	31	38	44	64	83	80	65	47	43	33	48
09-11 LST	31	30	30	31	31	45	68	57	46	44	50	39	42
12-14 LST	26	24	26	29	32	39	66	55	39	28	37	33	36
15-17 LST	27	26	30	36	35	46	70	57	39	29	35	34	39
18-20 LST	25	24	28	31	33	43	60	49	33	28	38	32	35
21-23 LST	23	20	22	22	27	43	60	43	29	23	33	30	31
ALL HOURS	25	25	27	30	33	47	67	57	41	32	39	33	38

8. % FREQ OF CIG/VIS LT 1500/3 MI (SOURCE NO. 1)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
00-02 LST	1	1	1	2	2	3	5	6	5	3	2	2	3
03-05 LST	1	2	2	4	6	9	13	18	16	9	6	3	7
06-08 LST	1	2	3	10	15	25	31	34	37	22	9	3	16
09-11 LST	1	3	4	4	3	4	7	6	12	18	11	5	7
12-14 LST	1	1	1	1	1	2	4	3	1	1	1	2	2
15-17 LST	1	#	1	2	1	2	4	3	1	1	#	1	2
18-20 LST	1	1	1	2	2	3	4	4	1	#	#	1	2
21-23 LST	#	1	1	1	1	2	3	2	2	1	#	1	1
ALL HOURS	1	1	2	3	4	6	9	10	10	7	4	2	5

9. % FREQ OF CIG/VIS LT 1000/2 MI (SOURCE NO. 1)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
00-02 LST	1	1	1	1	1	1	2	3	5	3	2	2	2
03-05 LST	#	1	1	3	5	7	11	17	16	9	6	3	7
06-08 LST	1	1	3	9	14	23	26	30	37	22	8	2	15
09-11 LST	#	1	3	3	2	2	2	4	11	17	10	4	5
12-14 LST	0	#	#	0	#	0	#	#	#	#	#	2	#
15-17 LST	0	0	#	1	#	#	#	#	0	0	#	#	#
18-20 LST	#	#	#	1	1	#	#	#	#	0	0	#	#
21-23 LST	0	1	1	#	#	#	#	1	#	#	#	1	#
ALL HOURS	#	1	1	2	3	4	5	7	9	7	3	2	4

10. % FREQ OF CIG/VIS LT 200/0.5 MI (SOURCE NO. 1)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
00-02 LST	#	#	#	1	1	1	1	2	4	2	2	1	1
03-05 LST	#	1	1	3	4	7	10	16	15	9	6	2	6
06-08 LST	1	1	2	9	13	20	23	28	35	20	7	2	13
09-11 LST	#	1	3	3	1	1	1	4	9	15	9	4	4
12-14 LST	0	0	0	0	0	0	0	0	0	0	#	1	#
15-17 LST	0	0	0	#	0	#	0	#	0	0	#	#	#
18-20 LST	0	#	#	#	0	#	0	0	#	0	0	#	#
21-23 LST	0	#	#	#	0	0	0	#	0	#	#	1	#
ALL HOURS	#	1	1	2	2	4	4	6	8	6	3	1	3

OPERATIONAL CLIMATIC DATA SUMMARY

STATION: YANGDOK, NORTH KOREA

LOCATION: 3910N 12650E

PREPARED BY: USAFETAC/DOC, DEC 1993

STATION #: 470520

ELEVATION (FEET): 915

PERIOD: 7604-9212

ICAO:

LST = GMT + 9

11. PERCENTAGE FREQUENCY OF OCCURRENCE (% FREQ) OF THUNDERSTORMS:

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
00-02 LST	0	0	0	0	#	1	1	#	1	1	0	0	#
03-05 LST	0	#	0	#	#	#	1	1	0	0	#	0	#
06-08 LST	0	0	0	#	#	#	1	1	#	0	0	0	#
09-11 LST	0	0	0	#	#	#	#	#	#	#	0	0	#
12-14 LST	0	0	0	#	#	0	1	0	#	0	#	0	#
15-17 LST	0	0	0	0	1	#	1	2	#	#	0	#	#
18-20 LST	0	0	0	#	1	2	1	2	1	0	0	0	1
21-23 LST	0	0	0	0	#	2	2	1	#	#	#	0	#
ALL HOURS	0	#	0	#	#	1	1	1	#	#	#	#	#

12. % FREQ RAIN AND/OR DRIZZLE:

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
00-02 LST	#	2	4	7	9	12	13	10	8	5	6	2	6
03-05 LST	1	1	3	9	9	10	15	12	6	4	7	2	7
06-08 LST	1	1	3	8	10	11	18	14	8	5	7	3	7
09-11 LST	#	#	3	8	9	9	18	13	9	3	6	3	7
12-14 LST	1	2	4	9	8	9	16	11	8	3	6	3	7
15-17 LST	1	3	7	9	7	9	14	12	8	5	5	5	7
18-20 LST	1	1	5	9	9	11	13	15	9	5	7	3	8
21-23 LST	1	2	5	7	7	11	15	13	8	6	7	4	7
ALL HOURS	1	2	4	8	9	10	15	12	8	4	6	3	7

13. % FREQ SNOW AND/OR ICE PELLETS:

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
00-02 LST	7	7	5	1	0	0	0	0	0	#	1	7	2
03-05 LST	7	8	4	1	0	0	0	0	0	#	2	6	2
06-08 LST	8	8	4	1	0	0	0	0	0	#	3	6	2
09-11 LST	10	9	5	1	#	0	0	0	0	#	3	9	3
12-14 LST	9	6	4	1	0	0	0	0	0	1	2	7	2
15-17 LST	9	5	3	1	0	0	0	0	0	0	1	6	2
18-20 LST	8	5	5	1	0	0	0	0	0	#	1	5	2
21-23 LST	7	5	4	1	0	0	0	0	0	#	1	6	2
ALL HOURS	8	6	4	1	#	0	0	0	0	#	2	6	2

14. % FREQ OF SURFACE WIND SPEEDS GT 25 KTS. (INCLUDING GUSTS):

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
00-02 LST	0	0	0	0	0	0	0	0	0	0	0	0	0
03-05 LST	0	0	0	0	0	0	0	0	0	0	0	0	0
06-08 LST	0	0	0	0	0	0	0	0	0	0	#	0	#
09-11 LST	0	0	0	0	0	0	#	0	0	0	0	0	#
12-14 LST	0	#	#	0	#	0	#	0	0	0	0	0	#
15-17 LST	0	#	0	0	0	0	#	0	0	#	0	0	#
18-20 LST	0	0	#	#	0	0	0	#	0	0	0	0	#
21-23 LST	0	0	0	0	#	#	0	0	0	0	#	0	#
ALL HOURS	0	#	#	#	#	#	#	#	0	#	#	0	#

OPERATIONAL CLIMATIC DATA SUMMARY

STATION: YANGDOK, NORTH KOREA
 LOCATION: 3910N 12650E
 PREPARED BY: USAFETAC/DOC, DEC 1993

STATION #: 470520
 ELEVATION (FEET): 915
 PERIOD: 7604-9212

ICAO:
 LST = GMT + 9

15. % FREQ OF CEILING AND/OR VISIBILITY (CIG/VIS) LT 800/2 MI:

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
00-02 LST	1	1	1	1	1	1	2	3	5	3	2	2	2
03-05 LST	#	1	1	3	5	7	11	17	16	9	6	3	7
06-08 LST	1	1	3	9	14	23	26	30	37	22	8	2	15
09-11 LST	#	1	3	3	2	2	2	4	11	17	10	4	5
12-14 LST	0	#	#	0	#	0	#	#	#	#	#	2	#
15-17 LST	0	0	#	1	#	#	#	#	0	0	#	#	#
18-20 LST	#	#	#	1	1	#	#	#	#	0	0	#	#
21-23 LST	0	1	1	#	#	#	#	1	#	#	#	1	#
ALL HOURS	#	1	1	2	3	4	5	7	9	7	3	2	4

16. % FREQ OF CIG/VIS LT 500/1.5 MI:

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
00-02 LST	1	1	1	1	1	1	2	3	5	3	2	2	2
03-05 LST	#	1	1	3	5	7	11	17	15	9	6	3	7
06-08 LST	1	1	3	9	14	23	26	30	37	22	8	2	15
09-11 LST	#	1	3	3	2	1	2	4	11	17	10	4	5
12-14 LST	0	#	0	0	#	0	#	#	#	#	#	2	#
15-17 LST	0	0	0	#	0	#	#	#	0	0	#	#	#
18-20 LST	#	#	#	#	#	#	#	#	#	0	0	#	#
21-23 LST	0	1	1	#	0	#	#	1	#	#	#	1	#
ALL HOURS	#	1	1	2	3	4	5	7	9	6	3	2	4

17. % FREQ OF CIG/VIS LT 300/1 MI:

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
00-02 LST	#	#	#	1	1	1	1	2	4	2	2	1	1
03-05 LST	#	1	1	3	5	7	10	16	15	9	6	2	6
06-08 LST	1	1	2	9	13	21	24	28	35	21	8	2	14
09-11 LST	#	1	3	3	1	1	1	4	10	15	9	4	4
12-14 LST	0	0	0	0	0	0	#	#	0	0	#	1	#
15-17 LST	0	0	0	#	0	#	0	#	0	0	#	#	#
18-20 LST	0	#	#	#	0	#	0	0	#	0	0	#	#
21-23 LST	0	#	#	#	0	#	0	#	0	#	#	1	#
ALL HOURS	#	1	1	2	2	4	5	6	8	6	3	1	3

18. % FREQ OF CIG/VIS LT 100/.25 MI:

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
00-02 LST	#	#	#	#	#	#	1	1	2	1	1	1	1
03-05 LST	#	1	1	2	2	3	5	8	7	7	3	2	3
06-08 LST	#	1	1	6	8	11	12	14	22	13	4	1	8
09-11 LST	0	#	1	1	1	#	0	1	2	7	5	3	2
12-14 LST	0	0	0	0	0	0	0	0	0	0	#	1	#
15-17 LST	0	0	0	0	0	#	0	#	0	0	#	#	#
18-20 LST	0	0	0	0	0	0	0	0	0	0	0	#	#
21-23 LST	0	#	0	0	0	0	0	0	0	0	#	1	#
ALL HOURS	#	#	#	1	1	2	2	3	4	3	2	1	2

SOURCE(S): 1. USAFETAC DATSAV2 SURFACE, APR 76 - DEC 92, 3 HOURLY OBS.
 2.

REMARKS: * = DATA NOT AVAILABLE # = LT 0.5 DAY, OR 0.05 INCH, OR 0.5%, AS APPLICABLE
 \$ = % CALM GT PVLGN DRCTN
 ‡ = BASED ONLY ON AVAILABLE DATA, I.E. LT 24 HRS/DAY, OR LT 12 MONTH/YR
 ANNUAL TOTALS MAY NOT EQUAL THE SUM OF MONTHLY TOTALS DUE TO ROUNDING

DISTRIBUTION

HQ AF XOWP 1490 AIR FORCE PENTAGON WASHINGTON DC 20330-1490	1
HQ AF XOWR RM BF866 1490 AIR FORCE PENTAGON WASHINGTON DC 20330-1490	1
HQ USAF XOOOW RM BD927 5054 AIR FORCE PENTAGON WASHINGTON DC 20330-5054	1
OSAF SS RM 4C1052 6560 AIR FORCE PENTAGON WASHINGTON DC 20330-6560	1
USTC TCJ3 J4-OW BLDG 1900 508 SCOTT DR SCOTT AFB IL 62225-5357	1
TACC WXF BLDG 1600 SCOTT AFB IL 62225-5000	1
AWS XTX 102 W LOSEY ST BLDG 1521 SCOTT AFB IL 62225-5206	1
AWS DO 102 W LOSEY ST BLDG 1521 SCOTT AFB IL 62225-5206	1
AWS XT 102 W LOSEY ST BLDG 1521 SCOTT AFB IL 62225-5206	1
DET 5 HQ AWS WALL STUDIO BLDG 0902 709 H ST STE 201 KEESLER AFB MS 39534-2447	1
OL-B HQ AWS (ESC AVD) 20 SCHILLING CIRCLE HANSCOM AFB MA 01731-2816	1
OL-F HQ AWS SMC CIA PO BOX 92960 2401 EL SEGUNDO BLVD LOS ANGELES CA 90009-2960	1
OL-K HQ AWS NEXRAD OPS SUPPORT FACILITY 3200 MARSHALL DR STE 100 NORMAN OK 73072-8028	1
OL-N HQ AWS C O ARL (AMSRL-BE-W) BLDG 1646 RM 24 WHITE SANDS MISSILE RNG NM 88002-5501	1
HQ AFGWC DO MBB39 106 PEACEKEEPER DR STE 2N3 OFFUTT AFB NE 68113-4039	1
HQ AFGWC DOM MBB39 106 PEACEKEEPER DR STE 2N3 OFFUTT AFB NE 68113-4039	1
AFSFC DOM 715 KEPLER AVE STE 60 FALCON AFB CO 80912-7160	1
USAFETAC 859 BUCHANAN ST SCOTT AFB IL 62225-5116	1
OL-A USAFETAC FEDERAL BUILDING RM 305 ASHEVILLE NC 28801-2723	1
USSTRATCOM J3615 901 SAC BLVD STE 1F14 OFFUTT AFB NE 68113-6700	1
USCENTCOM CCJ3-W BLDG 540 MACDILL BLVD MACDILL AFB FL 33608-7001	1
USSOCENT SOCJ2-SWO 7115 S BOUNDARY BLVD MACDILL AFB FL 33621-5101	1
USSOCOM SOJ3-W SPEC OPS MACDILL AFB FL 33605-6001	1
ACC DOW 30 ELM ST STE 215 LANGLEY AFB VA 23855-2093	1
1 WS CC WEATHER SUPPORT UNIT BLDG 693 RM 203 LANGLEY AFB VA 23865-5000	1
2 WS CC 245 DAVIS AVE EAST BARKSDALE AFB LA 71110-2269	1
24WS CC UNIT 0840 APO AA 34001-5000	1
4402 SSD WX APO AA 34002-5000	1
46 WF 601 W CHOCTAWHATCHEE AVE STE 60 EGLIN AFB FL 32542-5719	1
DET 1 NEADS DOW 105 MAINEIAC AVE STE 510 BANGOR ANGB ME 04401-3099	1
2AF DRW 8801 C ST STE 600 BEALE AFB CA 95903-1537	1
4 OSS OSW 1980 CURTISS AVE STE 100 SEYMOUR JOHNSON AFB NC 27531-2524	1
5 OSS OSW 221 FLIGHT LINE DR UNIT 2 MINOT AFB ND 58705-5021	1
6 OSS OSW 7709 HANGAR LOOP STE 2 MACDILL AFB FL 33621-5205	1
USCENTAF A3-DOOW STE 225 524 SHAW DR SHAW AFB SC 29152-5029	1
9 OSS DOW 7800 ARNOLD AVE STE 100 BEALE AFB CA 95903-1217	1
10 OSS DOW F AVE BLDG 401 STE 7 KI SAWYER AFB MI 49843-3400	1
12 AF DOOSM 5325 E KACHINA ST DAVIS-MONTHAN AFB AZ 85707-4921	1
22 OSS DOW 2845 GRAEBER ST STE 3 MARCH AFB CA 92518-2284	1
27 OSS OSW 110 E SEXTANT AVE STE 1040 CANNON AFB NM 88103-5322	1
28 OSS OSW 1820 VANDENBURG CT ELLSWORTH AFB SD 57706-4729	1
42 CS OSW GEORGIA RD BLDG 8200 RM 10 LORING AFB ME 04751-5000	1
43 OSS DOW 7224 FLIGHTLINE DR MALMSTROM AFB MT 59402-7526	1
49 OSS OSW BLDG 571 HOLLOMAN AFB NM 88330-5000	1
55 OSS OSWB 513 SAC BLVD STE 101 OFFUTT AFB NE 68113-2094	1
57 OSS OSW 6278 DEPOT RD STE 102 NELLIS AFB NV 89191-7256	1
58 OSS OSW 8TH ST 7254 N 142 AVE STE 3 LUKE AFB AZ 85309-1233	1
OL-A 58 OSS OSW BLDG 324 GILA BEND AFAP AZ 85337-5000	1
90 OSS DOW 7505 SABER RD BLDG 1250 FE WARREN AFB WY 82001-5000	1
92 OSS OSW BLDG 1 FAIRCHILD AFB WA 99011-5000	1
93 OSS DOW 7TH ST BLDG 1340 CASTLE AFB CA 95342-5000	1
7 OSS OSW 674 ALERT AVE DYESS AFB TX 79807-1774	1
97 OSS WXF 603 E AVE STE 1 ALTUS AFB OK 73523-5033	1
306 OSS DOW HOOSIER BLVD BLDG S-28 GRISSOM AFB IN 46971-5000	1
319 OSS DOW 695 STEEN AVE BLDG 528 STE 106 GRAND FORKS AFB ND 58205-6244	1
325 OSS OSW STOP 22 TYNDALL AFB FL 32403-5048	1
347 OSS OSW 8227 KNIGHTS WAY STE 106 MOODY AFB GA 31699-1899	1
355 OSS OSW PHOENIX ST BLDG 4820 DAVIS-MONTHAN AFB AZ 85707-6801	1
366 OSS OSW 665 THUNDERBOLT ST MT HOME AFB ID 83648-5401	1

380 OSS OSW 111 ARIZONA AVE STE 154 PLATTSBURGH AFB NY 12903-2705 1
 384 OSS DOW 53435 KANSAS CT STE 110 MCCONNELL AFB KS 67221-5000 1
 416 OSS OSW 592 HGR RD BLDG 100 STE 121 GRIFFISS AFB NY 13441-4520 1
 509 OSS OSW 745 ARNOLD AVE STE 1A WHITEMAN AFB MO 65305-5026 1

 HQ 1ST WEAG WSOT BLDG 130 ANDERSON WAY FT MCPHERSON GA 30330-5000 1
 OL-A 1ST WEAG BLDG 6212 FT IRWIN CA 92310-3000 1
 OL-AA 1ST WEAG BLDG 91251 LIBBY AAF GREELY HALL FT HUACHUCA AZ 85613-5000 1
 DET 1 1ST WEAG BLDG 7163 FT CAMPBELL KY 42223-5000 1
 DET 2 1ST WEAG BLDG 3136 STOP 746 FT BELVOIR VA 22060-5746 1
 DET 3 1ST WEAG BLDG AT3551 PRAGER ST FT BRAGG NC 28307-5000 1
 DET 4 1ST WEAG BLDG 2065 RM 139 HANGAR ACCESS DR FT DRUM NY 13602-5042 1
 DET 5 1ST WEAG 5220 PILOT ST FT KNOX KY 40121-5540 1
 DET 6 1ST WEAG BLDG 3082 AIRPORT WAY FT LEWIS WA 98433-5000 1
 DET 8 1ST WEAG 743 RAY PLACE MARSHALL AAF FT RILEY KS 66442-5317 1
 OL-A DET 8 1ST WEAG FORNEY AAF BLDG 5004 FT LEONARD WOOD MO 65473-5862 1
 DET 9 1ST WEAG BLDG 3051 FT RUCKER AL 36362-5162 1
 OL-A DET 9 1ST WEAG FT 3 BOX 302 TROY AL 36081-5000 1
 DET 10 1ST WEAG BLDG 2485 RM 110 LAWSON AAF FT BENNING GA 31905-6034 1
 DET 11 1ST WEAG BLDG 4907 FT SILL OK 73503-5100 1
 DET 12 1ST WEAG BLDG P-680 QUEBEC ST FT DEVENS MA 01433-5310 1
 DET 13 1ST WEAG BLDG 2406 FT EUSTIS VA 23604-5252 1
 DET 14 1ST WEAG BLDG 90049 CLARKE RD FT HOOD TX 78544-5078 1
 OL-A DET 14 1ST WEAG BLDG 11210 BIGGS AAF TX 79916-2418 1
 DET 21 1ST WEAG BLDG 7755 HUNTER AAF GA 31409-5193 1
 DET 31 1ST WEAG POLK AAF BLDG 4226 FT POLK LA 71459-6250 1
 DET 58 1ST WEAG BLDG 9601 BUTTS AAF FT CARSON CO 80913-6403 1

 AMC XOW 402 SCOTT DR RM 132 SCOTT AFB IL 62225-5363 1
 AMC XOWR 402 SCOTT DR UNIT 3A1 SCOTT AFB IL 62225-5302 1
 1 SOW OGSW 150 BENNETT BLDG 90730 HURLBURT FLD FL 32544-5000 1
 23 OSS OSW 1427 SURVEYOR ST STE A POPE AFB NC 28308-2797 1
 60 OSS WX 401 2D ST BLDG P4 TRAVIS AFB CA 94535-5966 1
 62 OSS WXF 1172 E ST MCCHORD AFB WA 98436-1008 1
 89 OSS WX 1240 MENOHER DR BLDG 1220 ANDREWS AFB MD 20331-6511 1
 97 OSS WXF 603 E AVE STE 1 ALTUS AFB OK 73523-5033 1
 230SS OSW BLDG 708 POPE AFB NC 28308-5000 1
 314 OSS OSW 2740 FIRST ST BLDG 120 LITTLE ROCK AFB AR 72099-5060 1
 375 WS OGWB 433 HANGAR RD RM 139 SCOTT AFB IL 62225-5029 1
 377 ABW OTW 3400 CLARK AVE KIRTLAND AFB NM 87117-5776 1
 436 OSS WXF 501 EAGLE WAY STE B BLDG 501 DOVER AFB DE 19902-7504 1
 437 OSS SSW 101 S BATES STE A BLDG 162 CHARLESTON AFB SC 29404-5013 1
 438 OSS WXF BLDG 1730 VANDENBERG AVE MCGUIRE AFB NJ 08641-5509 1
 HQ AFSPACECOM DOGW 150 VANDENBERG ST STE 1105 PETERSON AFB CO 80914-4200 1
 21 OSS OGSW CHEYENNE MTN AFB CO 80914-6113 1
 50 OSS WE (WEATHER FLIGHT) 300 O'MALLEY AVE STE 26 FALCON AFB CO 80912-3026 1

 45 WS BLDG 423 C ST PATRICK AFB FL 32925-6537 1
 AFTAC TNLW 1030 S HWY A1A PATRICK AFB FL 32925-3002 1
 30 WS 900 CORRAL RD BLDG 21150 VANDENBERG AFB CA 93437-5002 1
 AFMC DOW 4225 LOGISTICS AVE STE 2 WRIGHT PATTERSON AFB OH 45433-5714 1
 FASTC TAW 4115 HEBBLE CREEK RD STE 33 WRIGHT-PATTERSON AFB OH 45433-5637 1
 AFT CIR WRIGHT-PATTERSON AFB OH 45433-6583 1
 AFT ENP 2950 P ST WRIGHT PATTERSON AFB OH 45433-7765 1
 WRDC WE BLDG 22 WRIGHT-PATTERSON AFB OH 45433-6543 1
 2750ABW WE BLDG 206 AREA C SKEEL AV WRIGHT PATTERSON AFB OH 45433-6543 1
 645 WS DO 5291 SKEEL AVE STE 1 WRIGHT-PATTERSON AFB OH 45433-5231 1
 649 SPTG DOW 5970 SOUTHGATE AVE HILL AFB UT 84056-5232 1
 651 OSS OSW 303 LUKE DR STE 1 KELLY AFB TX 78241-5638 1
 652 OSS DOW 3028 PEACEKEEPER STE 4 MCCLELLAN AFB CA 95652-1020 1
 653 OSS/OSW 250 EAGLE STREET STE 202 ROBINS AFB GA 31098-2602 1
 654 SPTG DOW 3800 A AVE TINKER AFB OK 73145-9108 1
 2863 ABG DOW BLDG 110 ROBINS AFB GA 31098-5000 1
 3246 TW DOW BLDG 60 RM 60 EGLIN AFB FL 32542-5000 1

377 ABW CC 3400 CLARK AVE SE KIRTLAND AFB NM 87117-5776	1
412 OSS WE 85 S FLIGHTLINE RD EDWARDS AFB CA 93524-6460	1
UTTR WE HILL AFB UT 84056-5000	1
AFOTEC WE KIRTLAND AFB NM 87117-7001	1
ESMC WE PATRICK AFB FL 32925-5000	1
ESC WE 5 EGLIN ST HANSCOM AFB MA 01731-2122	1
PL GP ATTN DR HAROLD ROTH 29 RANDOLPH RD HANSCOM AFB MA 01731-3010	1
PL TSML 5 WRIGHT ST HANSCOM AFB MA 017313004	1
PL WE 3350 ABERDEEN KIRTLAND AFB NM 87117-5987	1
AFCEA WE TYNDALL AFB FL 32403-5000	1
AFESC RDXT BLDG 1120 STOP 21 TYNDALL AFB FL 32403-5000	1
46 TG WE HOLLOMAN AFB NM 88330-5000	1
325 OSS OSW FLORIDA AVE STOP 22 BLDG 149 TYNDALL AFB IL 32403-5048	1
OL-A AFCOS SITE R FORT RITCHIE MD 21719-5010	1
USAFALCENT RA POPE AFB NC 28308-5000	1
CCSO FL TINKER AFB OK 73145-6340	1
304 ARRS DOOR PORTLAND IAP OR 97218-2797	1
AFOSR NL BOLLING AFB DC 20332-5000	1
AL OEBE 2402 EAST DRIVE BROOKS AFB TX 78235-5114	1
AETC XOSW 1F ST STE 2 RANDOLPH AFB TX 78150-4325	1
12 OSS DOW H-08 1350 5TH STREET EAST RANDOLPH AFB TX 78150-4410	1
14 OSS DOW 595 1ST ST STE 3 COLUMBUS AFB MS 39701-4201	1
64 OSS DOW 145 N DAVIS DR BLDG 79 REESE AFB TX 79489-5000	1
80 OSS/DOAW 620 J AVE STE 3 SHEPPARD AFB TX 76311-2553	1
71 OSS DOW 623 ELAM RD SUITE 110 VANCE AFB OK 73705-5412	1
47 OSS DOW 541 1ST ST SUITE 2 LAUGHLIN AFB TX 78843-5210	1
81 SPTG OSFWX 817 H ST STE 102 KEESLER AFB MS 39534-2452	1
334 TTS TTMV BDLG 4332 700 H ST KEESLER AFB MS 39534-2499	1
502 OSS OSW 40 ARNOLD ST S MAXWELL AFB AL 36112-6601	1
6585 TG WE RANGE RD BLDG 1183 HOLLOMAN AFB NM 88330-5000	1
5 WS (PACAF) UNIT 15173 APO AP 96205-0108	1
DET 1 5 WS UNIT 15678 APO AP 96205-0678	1
OL-A DET 1 5 WS UNIT 15630 APO AP 96208-0195	1
OL-B DET 1 5 WS UNIT 15242 APO AP 96205-0015	1
OL-C DET 1 5 WS UNIT 15678 APO AP 96297-0676	1
DET 2 5 WS UNIT 15200 APO AP 96271-0136	1
OL-A DET 2 5 WS UNIT 15673 APO AP 96218-0673	1
DET 3 5 WS UNIT 15674 APO AP 96258-0674	1
OL-A DET 3 5 WS UNIT 15675 APO AP 96257-0675	1
OL-B DET 3 5 WS UNIT 15118 APO AP 96224-04201	1
8 OSS WS UNIT 2139 APO AP 96264-2139	1
803 ACCS WE UNIT 2051 APO AP 96278-2072	1
PACAF DOW BLDG 1102 25 E ST STE 1232 HICKAM AFB HI 96853-5426	1
15 WS 800 HANGAR AVE HICKAM AFB HI 96853-5244	1
DET 1 15WS 1102 WRIGHT AVE WHEELER AAF HI 96854-5200	1
OL-A DET 1 15WS POHAKULOA TRAINING AREA BRADSHAW AAF HI 96556-5000	1
OL-A DET 8 20WS APO AP 96376-1208	1
18 OSS OSW UNIT 5177 BOX 4 APO AP 96368-5177	1
374 OSS DOW UNIT 5222 APO AP 96328-5222	1
OL-A 374 OSS APO AP 96343-0085	1
432 OSS OGSW UNIT 5011 APO AP 96319-5011	1
643 SPTS OF UNIT 12526 APO AP 96513-2526	1
673 OPS WE UNIT 12509 APO AP 96512-2250	1
11 OPG WE 6900 9TH STE 205 ELMENDORF AFB AK 99506-5000	1
3 OSS WE 7TH ST BLDG 32235 ELMENDORF AFB AK 99506-5000	1
354 WS 1215 FLIGHTLINE AVE STE 2 EIELSON AFB AK 99702-1520	1
DET 1 343 WS FT WAINWRIGHT AK 99703-5200	1
633 OSS OSW UNIT 14035 APO AP 96543-4035	1
DET 1 633 OSS COMNAVMAV PSC 489 BOX 20 FPO AP 96536-0051	1

HQ NATO STAFF MET OFFICER LMS OPS APO AE 08724 1
 USAF DOOW UNIT 3050 BOX 15 APO AE 08084-5015 1
 3AF DOW UNIT 4840 APO AE 08459-4840 1
 16AF WE UNIT 6365 APO AE 08601-6365 1
 17AF WE UNIT 4085 APO AE 08136-5000 1
 86 OSS DOW UNIT 3230 BLDG 2308 2D FLOOR APO AE 08084-8495 1
 86 OSS DOWA UNIT 3230 APO AE 08084-5000 1
 86 OSS DOWB UNIT 3230 APO AE 08084-5000 1
 86 OSS DOWC UNIT 3230 APO AE 08084-5000 1
 DET 4, 617 WS UNIT 7890 APO AE 08126-7890 1
 10 OSS OSW UNIT 5605 BOX 175 APO AE 08470-5175 1
 32 OSS WE UNIT 6795 APO AE 08719-6795 1
 36 OSS DOM UNIT 3860 BOX 210 APO AE 08132-0210 1
 39 OSS OSW UNIT 1075 BOX 275 APO AE 08624-0275 1
 48 OSS DOM UNIT 5245 BOX 390 APO AE 08464-5390 1
 52 OSS WEF UNIT 8870 BOX 270 APO AE 08126-0270 1
 65 ALSS WEF APO AE 08720-7795 1
 100 OSS DOW UNIT 4965 APO AE 08459-4965 1
 401 OSS OGSW UNIT 6170 APO AE 08601-6170 1
 435 OSS DOW UNIT 9080 BOX 190 APO AE 08097-0190 1
 7WS DO UNIT 29351 APO AE 08014-5000 1
 OL-A 7 WS C O 527 MI OPS APO AE 08157-5000 1
 OL-B 7 WS CMR 423 APO AE 08107-5000 1
 OL-C 7 WS CMR 445 BOX 280 APO AE 08046-5000 1
 OL-F 7 WS UNIT 31401 BOX 8 APO AE 08630-5000 1
 OL-J 7 WS CMR 431 APO AE 08175-5000 1
 DET 1 7 WS HQ USEUCOM ECJ3-OD-WE UNIT 30400 BOX 1000 APO AE 08128-5000 1
 DET 2 7 WS UNIT 20200 APO AE 08165-9816 1
 OL-A DET 2 7 WS C/O BKAD 7BN 227 AVN RGT CMR 438 APO AE 08111-500 1
 DET 3 7WS UNIT 29231 APO AE 08102-3737 1
 OL-A DET 3 7 WS UNIT 29719 BOX 363 APO AE 08028-5000 1
 DET 7 7WS UNIT 28130 APO AE 08114-5000 1
 OL-A DET 7 7WS UNIT 28216 APO AE 08173-5000 1
 DET 8 7WS UNIT 25202 APO AE 08079-5000 1
 DET 10 7WS UNIT 26410 APO AE 08182-0006 1 1
 OL-A DET 10 7WS CMR 54 UNIT 31020 APO AE 08250-5000 1
 OL-B DET 10 7WS UNIT 28124 APO AE 08031-5000 1
 DET 13 7WS CMR 416 BOX S APO AE 08140-9998 1
 DET 26 7WS UNIT 29632 APO AE 08096-5000 1

 ANGRG/DOSW 3500 FETCHET AVE ANDREWS AFB MD 20331-5157 1
 104 WEATHER FLIGHT BLDG 929 FT MEADE MD 20755-5430 1
 105 WEATHER FLIGHT TENNESSEE AIR NATIONAL GUARD 240 KNAPP BLVD NASHVILLE TN 37217-2538 1
 107 WEATHER FLIGHT SELFRIDGE ANGB MI 48045-5024 1
 110 WEATHER FLIGHT 10800 NATURAL BRIDGE RD BRIDGETON MO 63044-2371 1
 111 WEATHER FLIGHT ELLINGTON ANGB TX 77034-5586 1
 113 WEATHER FLIGHT IN ANG HULMAN FLD TERRE HAUTE IN 47803-5000 1
 116 WEATHER FLIGHT WA ANG BLDG 307 6TH ST MCCHORD AFB WA 98439-1201 1
 199 WEATHER FLIGHT MCGUIRE AFB NJ 08641-6004 1
 120 WEATHER FLIGHT BUCKLEY ANGB CO 80011-9599 1
 121 WEATHER FLIGHT STOP 28 ANDREWS AFB MD 20331-6539 1
 122 WEATHER FLIGHT NEW ORLEANS NAS LA 70143-0200 1
 123 WEATHER FLIGHT PORTLAND IAP OR 97218-2797 1
 125 WEATHER FLIGHT PO BOX 580340 TULSA AFS OK 74158-0340 1
 126 WEATHER FLIGHT WI ANG 350 E COLLEGE MILWAUKEE WI 53207-6298 1
 127 WEATHER FLIGHT FORBES FLD TOPEKA KS 66619-5000 1
 130 WEATHER FLIGHT YEAGER APT CHARLESTON WV 25311-5000 1
 131 WEATHER FLIGHT 1 TANK DESTROYER BLVD BARNES ANGB MA 01085-1385 1
 140 WEATHER FLIGHT WILLOW GROVE NAS PA 19090-5105 1
 146 WEATHER FLIGHT GTR PITTSBURG ANG AN PA 15231-0459 1
 154 WEATHER FLIGHT CAMP ROBINSON NORTH LITTLE ROCK AR 72118-2200 1
 156 WEATHER FLIGHT 5225 MORRIS FLD DR CHARLOTTE NC 28208-5797 1
 159 WEATHER FLIGHT C O HQ FLANG STATE ARSENAL ST AUGUSTINE FL 32085-1008 1
 164 WEATHER FLIGHT RICKENBACKER ANGB OH 43217-5007 1

165 WEATHER FLIGHT STANDIFORD FLD LOUISVILLE KY 40213-2678 1
 181 WEATHER FLIGHT 8150 W JEFFERSON BLV DALLAS TX 75211-9570 1
 182 WEATHER FLIGHT KELLY AFB TX 78241-7001 1
 195 WEATHER FLIGHT BLDG 106 106 MULCAHEY DR PORT HUENENE CA 93041-4003 1
 199 WEATHER FLIGHT 1102 WRIGHT AVE HICKAM AFB HI 96853-5200 1
 200 WEATHER FLIGHT 5680 BEULAH RD SANDSTON VA 23150-6109 1
 202 WEATHER FLIGHT OTIS ANGB MA 02542-5028 1
 203 WEATHER FLIGHT FT INDIANTOWN GAP ANNVILLE PA 17003-5002 1
 204 WEATHER FLIGHT MCGUIRE AFB NJ 08641-6004 1
 207 WEATHER FLIGHT 3912 W MINNESOTA ST INDIANAPOLIS IN 46241-4064 1
 208 WEATHER FLIGHT 206 AIRPORT DRIVE ST PAUL MN 55107-4098 1
 209 WEATHER FLIGHT 2210 W 35TH ST BLDG 9 RM 119 AUSTIN TX 78703-1222 1
 210 WEATHER FLIGHT 1280 SOUTH TOWER DRIVE ONTARIO ANG CA 91761-7627 1

 COMNAVOCEANCOM CODE N312 STENNIS SPACE CTR MS 39529-5000 1
 COMNAVOCEANCOM CODE N332 STENNIS SPACE CTR MS 39529-5001 1
 NAVOCEANO CODE N25131 ATTN BERNIE RAU BLDG 8100 RM 203D STENNIS SPACE CTR MS 39522-5001 1
 NAVOCEANO CODE 9220 STENNIS SPACE CTR MS 39529-5001 1
 NAVOCEANO CODE N2513 1002 BALCH BLVD STENNIS SPACE CTR MS 39522-5001 1
 FNOC LIBRARIAN FLENUMOCEANEN MONTEREY CA 93943-5005 1
 MAURY OCEANOGRAPHIC LIBRARY NAVAL OCEANOGRAPHY OFFICE N4312 BLDG 1003 STENNIS SPACE CTR MS 39522-5001 1
 NAVAL RESEARCH LABORATORY MONTEREY CA 93943-5006 1
 NAVAL RESEARCH LABORATORY CODE 4323 WASHINGTON DC 20375 1
 NAVAL RESEARCH LABORATORY CODE 4180 WASHINGTON DC 20375 1
 NAVAL POSTGRADUATE SCHOOL CHMN DEPT OF METEOROLOGY CODE 63 MONTEREY CA 93943-5000 1
 NAVAL EASTERN OCEANOGRAPHY CTR (CLIM SECTION) U117 MCCADY BLDG NORFOLK NAS NORFOLK VA 23511-5000 1
 NAVAL WESTERN OCEANOGRAPHY CTR BOX 113 ATTN TECH LIBRARY PEARL HARBOR HI 96860-7000 1
 NAVAL POLAR OCEANOGRAPHY CTR 4301 SUITLAND ROAD FOB #4 WASHINGTON DC 20395-5108 1
 NAVAL EUROPEAN METEOROLOGY AND OCEANOGRAPHY CTR PSC 819 BOX 31 FPO AE 09645-3200 1
 NAVOCEANCOMDET FEDERAL BUILDING ASHEVILLE NC 28801-2696 1
 NAVOCEANCOMDET PATUXENT RIVER NAS MD 20670-5103 1
 NAVOCEANCOMFAC NAS NORTH ISLAND SAN DIEGO CA 92135-5130 1
 NAVAL AIR WARFARE CENTER WEAPONS DIVISION GEOPHYSICAL SCIENCES BRANCH CODE 3254 PT MUGU CA 93042-5001 1
 CMDR COMNAVSPESWARCOM ATTN N27 FORCE OCEANOGRAPHER 2000 TRIDENT WAY SAN DIEGO CA 92155-5599 1
 WSO H & HS MARINE STATION WEA MCAS TUSTIN CA 92710-5000 1

 ARMY TRAINING AND DOCTRINE COMMAND ATDO-IW (ATTN SWO) FT MONROE VA 23651-5000 1
 75TH RGR (ATTN SWO) FT BENNING GA 31905-5000 1
 CDR USASOC ATTN AOIN-ST FT BRAGG NC 28307-5200 1
 JSOC WEATHER PO BOX 70239 FT BRAGG NC 28307-5000 1
 ARMED FORCES MEDICAL INTEL CTR INFO SVCS DIV BLDG 1607 FT DETRICK FREDERICK MD 21702-5004 1
 ARMY RESEARCH LAB BATTLEFIELD ENVIRONMENT DIR ATTN AMSRL-BE-W WHITE SANDS MISSILE RANGE NM 88002-5501 1
 USA TECOM ATTN AMSTE-TC-AA WHITE SANDS MISSILE RANGE NM 88002-5504 1
 NATL RANGE DIRECTORATE METEOROLOGICAL BRANCH ATTN STEWS-NE-DA-F WHITE SANDS MISSILE RANGE NM 88002-5504 1
 USA TECOM ATTN AMSTE-TC-AM CAB ABERDEEN PROVING GROUND MD 21005-5001 1
 US ARMY REDSTONE TECHNICAL TEST CTR ATTN STERT-TE-F-MT REDSTONE ARSENAL AL 35898-8052 1
 USA TECOM ATTN AMSTE-TC-AM(BE) C O NVESD FT BELVOIR VA 22060-5677 1
 USA TECOM ATTN AMSEL-RD-NV-VMD (MET) FT BELVOIR VA 22060-5677 1
 DIRECTOR USA-CETEC ATTN GL-AE FORT BELVOIR VA 22060-5546 1
 US ARMY INTEL CTR AND FT HUACHUCA WEATHER SUPPORT TEAM ATTN ATZS-CDI-W FT HUACHUCA AZ 85613-6000 1
 PL TSML RESEARCH LIBRARY HANSCOM AFB MA 01731-5000 1

 ROME LAB TECH LIB FL2810 CDR W STE 262 26 ELECTRONICS PARKWAY BLDG 106 GRIFFISS AFB NY 13441-4514 1
 RL WE 26 ELECTRONICS PARKWAY GRIFFISS AFB NY 13441-4514 1
 TECHNICAL LIBRARY DUGWAY PROVING GROUND DUGWAY UT 84022-5000 1
 NOAA CENTRAL LIBRARY 1315 EAST-WEST HIGHWAY STE 2000 SILVER SPRING MD 20910-3283 1
 NOAA MASC LIBRARY MC5 325 BROADWAY BOULDER CO 80303-3328 1

NOAA NESDIS ATTN NANCY EVERSON E RA22 WORLD WEATHER BLDG RM 703 WASHINGTON DC 20233 1
 NGDC NOAA ATTN: AF LIAISON OFFICER MAIL CODE E GC2 325 BROADWAY BOULDER CO 80333-3328 1
 NOAA NATL WEATHER SERVICE W/OSD SSMC-2 RM 12220 1325 EAST-WEST HWY SILVER SPRING MD 20910-3283 . 1
 NOAA NATL WEATHER SERVICE W/OM21 SSMC-2 RM 13148 1325 EAST-WEST HWY SILVER SPRING MD 20910-3283 1
 NIST PUBS PRODUCTION RM A635 ADMIN BLDG GAITHERSBURG MD 20899 1
 NCDC LIBRARY FEDERAL BUILDING ASHEVILLE NC 28801-2733 1

 CAPE CANAVERAL FORECAST FACILITY ROCC BLDG 81900 CAPE CANAVERAL AFS FL 32925-6537 1
 DOBBINS BASE WEATHER BLDG 737 RM 113 1477 MINOSA DR DOBBINS AFB GA 30069-4821 1
 DET 3 DOXW 1900 EAST FLAMINGO STE 266 PO BOX 19070 LAS VEGAS NV 89119-5116 1
 WESTOVER BASE WEATHER STATION BLDG 7091 RM 123 WESTOVER AFB MA 01022-5000 1
 WEATHER READINESS TRAINING CENTER (WRTC) PO BOX 465 RTE 1 CAMP BLANDING STARKE FL 32091-9703 .. 1
 193 SOG DOW BLDG 19-101 RM 108 AASF #1 INDIANTOWN GAP ANNAVILLE PA 17003-5005 1
 USAFA MET LIBRARY DFEG 2354 FAIRCHILD DR STE 4L19 USAF ACADEMY CO 80840-6254 1
 USAFA DEPT OF ECONOMICS & GEOGRAPHY COLORADO SPINGS CO 80840-5701 1
 USAFA CWOSW AIR FIELD DR BLDG 9208 USAF ACADEMY CO 80840-5000 1
 HQ 5TH US ARMY AFKB-OP (SWO) FT SAM HOUSTON TX 78234-7001 1
 USCINCPAC (J37) BOX 13 CAMP HM SMITH HI 96861-5025 1
 DTIC-FDAC CAMERON STATION ALEXANDRIA VA 22304-6145 1
 AUL LSE BLDG 1405 600 CHENNAULT CIRCLE MAXWELL AFB AL 36112-6424 1