

# KneeBoard

VER. 23.5.20



[Click for Update](#)

by Flyingdeuk

<u>GMP ↔ CJU</u>	<u>GMP ↔ SHA</u>
<u>GMP ↔ PUS</u>	<u>GMP ↔ KIX</u>
<u>CJU ↔ KWJ</u>	
<u>CJU ↔ CJJ</u>	
<u>CJU ↔ TAE</u>	
<u>CJU ↔ PUS</u>	
<u>PUS ↔ NRT</u>	
<u>ICN ↔ PUS</u>	<u>ICN ↔ NKG</u>
<u>ICN ↔ KIX</u>	<u>ICN ↔ TAO</u>
<u>ICN ↔ NRT</u>	
<u>ICN ↔ CTS</u>	
<u>ICN ↔ HND</u>	
<u>ICN ↔ NGO</u>	

## Welcome PA

Meter/Feet Conversion

Cold Temp Correction

Cold Wx Operation

ENG ON Deicing

ENG OFF Deicing

**RKSS(GMP) 59ft****RKPC(CJU) 119ft**

KE GMP 131.15

DCL -15분 가능 TOBT 5분 차이  
시 CTC Comm

KE CJU 129.4

Rwy 32R **Takeoff**(06:00L~0900L / 12:00L~15:00L  
/18:00L~21:00L)**GMP : SID (NADP 1)**

32L/R	<b>BULTI xT</b>	<b>324</b>	<b>324</b>	<b>5000</b>	<b>324</b>
	(BULTI xQ)	324	324	5000	324
14L/R	<b>BULTI xU</b>	<b>144</b>	<b>144</b>	<b>6000</b>	<b>144</b>
	(BULTI xZ)	144	144	6000	144
<b>KIP</b> 113.6	<b>32L</b> 108.3	<b>32R</b> 110.7	<b>14L</b> 109.9	<b>14R</b> 108.7	
32L/R : KIP324/5, R220 YJU R271			14L/R : KIP144/4, R220 P73 /2		

HUD	<b>32L(41')</b>	<b>10499'</b>	<b>14R(34')</b>
	<b>32R(42')</b>	<b>11811'</b>	<b>14L(38')</b>

APRON(130.875) -&gt; GND(121.9) -&gt; TWR (All by ATC)

**Home****CJU : STAR****AFT Merge PT(220kts) DCT IAF(210kts), FAF (160kts)**

<b>ILS Z 07</b>	<b>DOTOL xP</b>	<b>YUMIN</b>	<b>DOTOL 160</b>
<b>ILS Z 25</b>	<b>DOTOL xT</b>	<b>DUKAL</b>	<b>DOTOL/-10 160</b>
<b>HUD</b>	<b>07(87')</b>	<b>10433'</b>	<b>25(76')</b>

**07 : P6(5176'), P5(5882'), P4(6840'-ATC HIRO)****25 : P7(5219'), P8(5882'), P10(7524'-ATC HIRO)**Entering Rapid TWY CTC GND 121.675 (STOP x)  
HST 40KTS

**RKPC(CJU) 119ft****RKSS(GMP) 59ft**

KE CJU 129.4

DCL -10분

KE GMP 131.15

Rwy 32L **Landing**

(06:00L~0900L / 12:00L~15:00L

/18:00L~21:00L)

**CJU : SID (NADP 1)**

07	KAMIT xE	066	066	10000	066
----	----------	-----	-----	-------	-----

25	KAMIT xW	246	246	10000	246
----	----------	-----	-----	-------	-----

YDM 109.0	07 109.9	25 111.3
-----------	----------	----------

07 : NONE

25 : YDM246/3, R290

HUD	07(87')	10433'	25(76')
-----	---------	--------	---------

07 : Passing G4 CTC TWR

25 : 31 Holding PSN on P, E1,2,3 CTC TWR

**Home****GMP : STAR**

ILS 32L/R	OLMEN xT	BUMSI	OLMEN 160
-----------	----------	-------	-----------

ILS 14R	OLMEN xU	DOKDO	OLMEN 160
---------	----------	-------	-----------

HUD

32L(41')	10499'	14R(34')
----------	--------	----------

32R(42')	11811'	14L(38')
----------	--------	----------

FIX

KIP /8(RWY 32), YJU R271, P73 /2

**32L : D3(6532'), E2(9117'), 32R : E1(6614')****14R : C1(6578')**

32L/R : 8 KIP L/G, 14R : LOC CAPT L/G

FAF : Final Flap

TWR -&gt; GND -&gt; APRON (All by ATC)

Except RWY14R Landing (Until R)

**RKSS(GMP) 59ft****RKPK(PUS) 13ft**

KE GMP 131.15

DCL -15분 가능 TOBT 5분 차이  
시 CTC Comm

KE Gimhae 129.2

Rwy 32R **Takeoff**(06:00L~0900L / 12:00L~15:00L  
/18:00L~21:00L)**GMP : SID (NADP 1)**

32L/R	OSPOT xT	324	324	5000	324
	(OSPOT xQ)	324	324	5000	324
14L/R	OSPOT xU	144	144	6000	144
	(OSPOT xZ)	144	144	6000	144
KIP 113.6	32L 108.3	32R 110.7	14L 109.9	14R 108.7	

32L/R : KIP324/5, R220  
YJU R27114L/R : KIP144/4, R220  
P73 /2

HUD	32L(41')	10499'	14R(34')
	32R(42')	11811'	14L(38')

APRON(130.875) -&gt; GND(121.9) -&gt; TWR (All by ATC)

**Home****PUS : STAR (Tail Wind 36R 136000lbs F40)**

ILS 36	KEVOX x	MASTA	9DME LG, 8DME FLAP
VOR 18	GAYHA x	MASTA	<b>18 Circling Click!!</b>
HUD	36L(13') 10499' 36R(8') 8999'		18R(13') 8530' 18L(13') 8999'
FIX	36 : IKMA/IKHE /9, /8		18 : KMH R283, R280

36L : C4 (6299'), C2(7795') / 36R : E3(5866'), E2(7339')  
18R : C6(5770'), C7 (6824') / 18L : E4(5882'), E5(8792')Vacate C3,C4 by ATC only. Max Taxi SPD 20KTS  
C2 HOLD SHORT 가까움(Vacate TaxiSPD)

RKPK(PUS) 13ft

RKSS(GMP) 59ft

KE Gimhae 129.2

DCL -5분

KE GMP 131.15

Rwy 32L **Landing**

(06:00L~0900L / 12:00L~15:00L

/18:00L~21:00L)



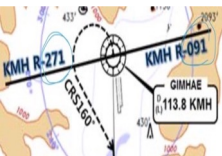
PUS : SID (Mod NADP CLB2 1000, 14000 MAX)

36	SOORO x KALOD tx	305	280	ATC	342
18	GIMHAE x	182	182	5000	182
KMH 113.8		PSN 114.0	36L 108.5	36R 109.5	

36 : KMH R091, R271, R185

HUD	36L(13') 10499'	18R(13') 8530'
	36R(8') 8999'	18L(13') 8999'

RWY36 400ft Man L/H turn, Max Taxi SPD 20KTS



**Home**

GMP : STAR

ILS 32L/R	GUKDO xT	BUMSI	GUKDO 160
ILS 14R	GUKDO xU	DOKDO	GUKDO 160
HUD	32L(41')	10499'	14R(34')
	32R(42')	11811'	14L(38')
FIX	KIP /8(RWY 32), YJU R271, P73 /2		

32L : D3(6532'), E2(9117'), 32R : E1(6614')

14R : C1(6578')

32L/R : 8 KIP L/G, 14R : LOC CAPT L/G

FAF : Final Flap

TWR -> GND -> APRON (All by ATC)

Except RWY14R Landing (Until R)

**RKPC(CJU) 119ft****RKJJ(KWJ) 48ft**

KE CJU 129.4

DCL -10분

KE KWJ 129.4

**CJU : SID (NADP 1)**

07	KAMIT xE	066	066	10000	066
----	----------	-----	-----	-------	-----

25	KAMIT xW	246	246	10000	246
----	----------	-----	-----	-------	-----

YDM 109.0

07 109.9

25 111.3

07 : NONE

25 : YDM246/3, R290

HUD

07(87')

10433'

25(76')

07 : Passing G4 CTC TWR

25 : 31 Holding PSN on P, E1,2,3 CTC TWR

**Home****KWJ : NO STAR (TL 140확인!)**

ILS 04R

no  
KOTTY

SAMUL/-15

CI04R

LOC 22L

SAMUL

D058Q

VOR 22LR

SAMUL

D058Q

(PAR 6NM, 3)

HUD

04R(46')

9301'

22L(48')

04L(46')

9301'

22R(48')

FIX

04R : SAMUL(CLR Limit)

**End of RWY Vacating 9301'**

**LOC 22L : 3.3도, VOR 22L/R : 3.29도(22R offset, PAR!!) -> LOC/VOR LNAV Final Establish 이후 강하**

TAXI MAX 15 kts (Max 30kts by ATC)

## RKPC(CJU) 119ft

KE KWJ 129.4

NO DCL

KE CJU 129.4

## KWJ : SID (NADP 1)

ALL	KWA 5			8000	
04L	(GWJ 3)	038	038	ATC	038
22R	(GWJ 4)	218	218	ATC	218

KWA 114.4

## 04R 111.1

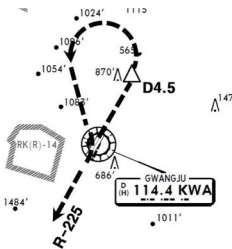
**22L 108.5**

04 : KWA /4.5, R225

22 : None

HUD	04L(46')	9301'	22R(48')
	04R(46')	9301'	22L(48')

Taxi SPD MAX 15kts  
MAX 30kts by ATC



## Home

**CJU : STAR**

**AFT Merge PT(220kts) DCT IAF(210kts), FAF (160kts)**

ILS Z 07	DOTOL xP	YUMIN	DOTOL 160	
ILS Z 25	DOTOL xT	DUKAL	DOTOL/-10 160	
HUD	07(87')	10433'	25(76')	

**07 : P6(5176'), P5(5882'), P4(6840'-ATC HIRO)**

**25 : P7(5219'), P8(5882'), P10(7524'-ATC HIRO)**

Entering Rapid TWY CTC GND 121.675 (STOP x)  
HST 40KTS

**RKPC(CJU) 119ft****RKTU(CJJ) 192ft**

KE CJU 129.4

DCL -10분

KE CJJ 129.05

NO DCL, ATIS

**CJU : SID (NADP 1)**

07	KAMIT xE	066	066	10000	066
----	----------	-----	-----	-------	-----

25	KAMIT xW	246	246	10000	246
----	----------	-----	-----	-------	-----

YDM 109.0	07 109.9	25 111.3
-----------	----------	----------

07 : NONE

25 : YDM246/3, R290

HUD	07(87')	10433'	25(76')
-----	---------	--------	---------

07 : Passing G4 CTC TWR

25 : 31 Holding PSN on P, E1,2,3 CTC TWR

**Home****CJJ : NO STAR**

After OSPOT H/D060 – RDR Vector

Req ILS Z 24R via HYEIN

ILS Z 06L	NO STAR (MATIZ x)	OSPOT (JIKJI tx)	TU761 / BAKJO (STAR 안춤)
-----------	----------------------	---------------------	----------------------------

ILS Z 24R	NO STAR (MATIZ x)	OSPOT (HYEIN tx)	HYEIN (STAR 안춤)
-----------	----------------------	---------------------	--------------------

HUD	06L(166')	9003'	24R(182')
-----	-----------	-------	-----------

	06R(173')	9003'	24L(191')
--	-----------	-------	-----------

FIX	
-----	--

06L : B3 (6443'), A3 (8786')

24R : C3 (6230'), D3 (8825')

**GS fluc' - A/P Dis' – Back to Normal – A/P Reengage**

Req full length Landing (Vacate End of RWY)

180 BACK LINE 지나 Taxi Line 있음

Entering TWY A3, B3, B4, C3, D3 change GND freq



**RKTU(CJJ) 192ft****RKPC(CJU) 119ft**

KE CJJ 129.05

NO DCL, ATIS

KE CJU 129.4

**CJJ : SID (NADP 1)**

06L	CJJ xD	060	060	6000	060
24R	CJJ xD	240	240	6000	240

(06L : BUKIL 1, 2 RNAV)

(24R : OLREG 1, UPTIL 1)

**CHO 109.0****06L 110.3****24R 111.7**

06L/R : CHO /1.7, R235

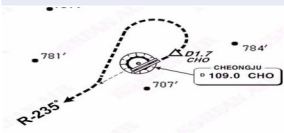
24L/R : None

HUD

**06L(166')****9003'****24R(182')****06R(173')****9003'****24L(191')**

Upslope from Apron to RWY

Entering TWY A3, B3, B4, C3, D3 change TWR freq

**Home****CJU : STAR****AFT Merge PT(220kts) DCT IAF(210kts), FAF (160kts)**

ILS Z 07	DOTOL xP	YUMIN	DOTOL 160
ILS Z 25	DOTOL xT	DUKAL	DOTOL/-10 160

HUD

**07(87')****10433'****25(76')****07 : P6(5176'), P5(5882'), P4(6840'-ATC HIRO)****25 : P7(5219'), P8(5882'), P10(7524'-ATC HIRO)**

Entering Rapid TWY CTC GND 121.675 (STOP x)

HST 40KTS

**RKPC(CJU) 119ft****RKTN(TAE) 120ft**

KE CJU 129.4

DCL -10분

KE TAE 129.2

**CJU : SID (NADP 1)**

07	AKPON xE	066	066	9000	066
----	----------	-----	-----	------	-----

25	AKPON xW	246	246	ATC	246
----	----------	-----	-----	-----	-----

YDM 109.0	07 109.9	25 111.3
-----------	----------	----------

07 : NONE

25 : YDM246/3, R290

HUD	07(87')	10433'	25(77')
-----	---------	--------	---------

07 : Passing G4 CTC TWR

25 : 31 Holding PSN on P, E1,2,3 CTC TWR

**Home****TAE : NO STAR (TL 140 확인)**

ILS 31L	TGU/-10	CF31L222/7	CF31L
---------	---------	------------	-------

ILS 13R	TGU/-10	YAWAN	
---------	---------	-------	--

HUD

31L(118')	9039'	13R(111') 3.3
-----------	-------	---------------

31R(120')	8999'	13L(112')
-----------	-------	-----------

FIX

**31L : D1(8848'), 13R : A1(8772')**

13R ILS 3.3도 PAPI 3.3도 (산악지형 주의)

TAXI MAX 20kts (do not req) 최소 2000ft 간격

**RKTN(TAE) 120ft****RKPC(CJU) 119ft**

KE TAE 129.2

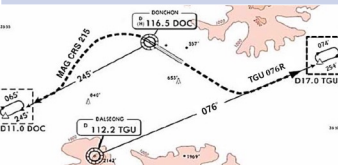
NO DCL

KE CJU 129.4

**TAE : SID (NADP 1)**

31L/R	DAEGU xD	312	312	8000	192
13L/R	DAEGU xD	132	132	8000	192
DOC 116.5		TGU 112.2	31L 108.7		13R 108.7
31 : DOC 245/11 DOC R245			13 : TGU076/17 TGU R076		
HUD	31L(118')		9039'	13R(112') 3.3	
	31R(120')		8999'	13L(112')	

TAXI MAX 20kts (do not req) 최소 2000ft 간격

**Home****CJU : STAR**

AFT Merge PT(220kts) DCT IAF(210kts), FAF (160kts)

ILS Z 07	UPGOS xP	YUMIN	
ILS Z 25	UPGOS xT	DUKAL	
HUD	07(87')	10433'	25(76')

07 : P6(5176'), P5(5882'), P4(6840'-ATC HIRO)

25 : P7(5219'), P8(5882'), P10(7524'-ATC HIRO)

Entering Rapid TWY CTC GND 121.675, STOP X  
HST 40KTS

**RKPC(CJU) 119ft****RKPK(PUS) 13ft**

KE CJU 129.4

DCL -10분

KE Gimhae 129.2

**CJU : SID (NADP 1)**07 **AKPON xE** **066** **066** **9000** **066**25 **AKPON xW** **246** **246** **ATC** **246****YDM 109.0** **07 109.9** **25 111.3**

07 : NONE

25 : YDM246/3, R290

HUD **07(87')** **10433'** **25(76')**

07 : Passing G4 CTC TWR

25 : 31 Holding PSN on P, E1,2,3 CTC TWR

**Home****PUS : STAR (Tail Wind 36R 136000lbs F40)**ILS 36 **KEVOX x** **ANROD** 9DME LG, 8DME FLAPVOR 18 **GAYHA x** **ANROD** **18 Circling Click!!**HUD **36L(13') 10499'** **18R(13') 8530'**  
**36R(8') 8999'** **18L(13') 8999'**

FIX 36 : IKMA/IKHE /9, /8 18 : KMH R283, R280

**36L : C4 (6299'), C2(7795') / 36R : E3(5866'), E2(7339')**  
**18R : C6(5770'), C7 (6824') / 18L : E4(5882'), E5(8792')**Vacate **C3,C4** by ATC only. Max Taxi SPD 20KTS  
C2 HOLD SHORT 가까움(Vacate TaxiSPD)

RKPK(PUS) 13ft

RKPC(CJU) 119ft

KE Gimhae 129.2

DCL -5분

KE CJU 129.4

PUS : SID (Mod NADP CLB2 1000, 14000 MAX)

36	SOORO x TOPAX tx	305	280	ATC	278
18	BULIM x ENGOT tx	182	182	5000	182
KMH 113.8		PSN 114.0	36L 108.5	36R 109.5	

36 : KMH R091, R271, R185

HUD	36L(13') 10499'	18R(13') 8530'
	36R(8') 8999'	18L(13') 8999'

RWY36 400ft Man L/H turn, Max Taxi SPD 20KTS



Home

CJU : STAR

AFT Merge PT(220kts) DCT IAF(210kts), FAF (160kts)

ILS Z 07	UPGOS xP	YUMIN	
ILS Z 25	UPGOS xT	DUKAL	
HUD	07(87')	10433'	25(76')

07 : P6(5176'), P5(5882'), P4(6840'-ATC HIRO)

25 : P7(5219'), P8(5882'), P10(7524'-ATC HIRO)

Entering Rapid TWY CTC GND 121.675, STOP X  
HST 40KTS

RKPK(PUS) 13ft

RJAA(NRT) 135ft

KE Gimhae 129.2

DCL -5분

KE Tokyo 131.7

PUS : SID (Mod NADP CLB2 1000, 14000 MAX)

36	SOORO x PSN tx	305	280	ATC	162
18	BULIM x PSN tx	182	182	5000	182
KMH 113.8		PSN 114.0	36L 108.5	36R 109.5	

36 : KMH R091, R271, R185

HUD	36L(13') 10499' 36R(8') 8999'	18R(13') 8530' 18L(13') 8999'
-----	----------------------------------	----------------------------------

RWY 36 400ft Man L/H turn, Max Taxi SPD 20KTS



Home

DEP 125.5 – TGU 125.37

FUK 133.15 – TKO 133.8 – 133.02 – 132.45 – 124.1

TKO 128.2 – TKO APP 124.4

NRT HAKKA 330,YAGAN 240,LIVET 210,SWAMP 150

Prepare Holding or RWY CHG

34L/R	SWAMP E (SWAMP T)	ELGAR (TYLER)	ILS 34L/R(Z)
16L/R	SWAMP G (SWAMP N)	GEMIN (NORMA)	ILS Z 16L/R
HUD	16L(135')	8202'	34R(141')
	16R(130')	13123'	34L(139')
FIX	16L : ITM 4 / 34R : ITJ 14, 4 (DME) 16R : IKF 4 / 34L : IYQ 12, 4 (DME)		

16L : B6(6433'), B7(7017'), 34R : B4(5849'), B2(6778')

16R : A6(6076'), A7(7624'), 34L : A5(6167'), A4(7641')

L/D DOWN before 14/12 DME, L/D FLAP 4 DME

Arrival Taxi RTE in Jeppesen (No Numbering)

RJAA(NRT) 135ft	RKPK(PUS) 13ft
KE Tokyo 131.70 DCL -15분	KE Gimhae 129.2

NRT : SID – ENPAR tx (NADP 1)

16L/R	TETRA x ENPAR tx	157	157	ATC	157
34L/R		337	337	7000/ATC	337
NRE 117.9	16L 110.7	16R 111.5	34L 111.9	34R 110.9	
HUD	16L(135')	8202'	34R(141')		
	16R (130')	13123'	34L (139')		

34R : CLB 220/10000, A4R21/22/23 220KTS 확인  
 Verity ENPAR tx TETRA 12000A  
 APU Start, TAXI RTE 1, 2, 3, 4 RWY 별 DEP RTE

DEP 124.2

TKO 120.5 – 133.45 – 133.02 – 133.8

FUK 133.15

TGU 125.37

APP 125.5

**Home**

PUS : STAR (Tail Wind 36R 136000lbs F40)

ILS 36	PEDLO x	KALEK	9DME LG, 8DME FLAP
VOR 18	GAYHA x	PSN	<u>18 Circling Click!!</u>
HUD	36L(13') 10499' 36R(8') 8999'		18R(13') 8530' 18L(13') 8999'
FIX	36 : IKMA/IKHE /9, /8		18 : KMH R283, R280

36L : C4 (6299'), C2(7795') / 36R : E3(5866'), E2(7339')  
 18R : C6(5770'), C7 (6824') / 18L : E4(5882'), E5(8792')

Vacate C3,C4 by ATC only. Max Taxi SPD 20KTS  
 C2 HOLD SHORT 가까움(Vacate TaxiSPD)

RKSI(ICN) 23ft

KE ICN 131.5

DCL -10분 TOBT 5분 차이시

CTC Comm

RKPK(PUS) 13ft

KE Gimhae 129.2

ICN : SID (33/34 NADP 1, 15/16 NADP 2)

33L/R	OSPOT xE/A	333	333	5500/ ATC	333
34L/R	OSPOT xY	333	333	ATC	333
15L/R	OSPOT xC	153	153	5000	153
16L/R	OSPOT xH	153	153	5000	153
NCN 113.8		33L 109.3	33R 108.9	15L 111.9	15R 109.1
WNG 112.9		34L 109.95	34R 108.1	16L 110.35	16R 108.55
33L/R : NC05L/R, R242 YJU R271			34L/R : WNG333/4.6, R242 YJU R271		
HUD	33L/R 34L(23')		12303'	15L/R 16R(23')	
	34R (23')		13123'	16L (23')	

Parallel TWY 10KTS 이상(R17 MAX 15kts)

Home

PUS : STAR (Tail Wind 36R 136000lbs F40)

ILS 36	KEVOX x	MASTA	9DME LG, 8DME FLAP
VOR 18	GAYHA x	MASTA	18 Circling Click!!
HUD	36L(13') 10499' 36R(8') 8999'		18R(13') 8530' 18L(13') 8999'
FIX	36 : IKMA/IKHE /9, /8		18 : KMH R283, R280

36L : C4 (6299'), C2(7795') / 36R : E3(5866'), E2(7339')

18R : C6(5770'), C7 (6824') / 18L : E4(5882'), E5(8792')

Vacate C3,C4 by ATC only, Max Taxi SPD 20KTS

C2 HOLD SHORT 가까움(Vacate TaxiSPD)





RKSI(ICN) 23ft			RJBB(KIX) 17ft		
KE ICN 131.5 DCL -10분 TOBT 5분 차이시 CTC Comm			KE KIX 130.95		
ICN : SID (33/34 NADP 1, 15/16 NADP 2)					
33L/R	EGOBA xE/A	333	333	5500/ATC	333
34L/R	EGOBA xY	333	333	ATC	333
15L/R	EGOBA xC	153	153	5000	153
16L/R	EGOBA xH	153	153	5000	153
NCN 113.8		33L 109.3	33R 108.9	15L 111.9	15R 109.1
WNG 112.9		34L 109.95	34R 108.1	16L 110.35	16R 108.55
33L/R : NC05L/R, R242 YJU R271			34L/R : WNG333/4.6, R242 YJU R271		
HUD	33L/R 34L(23')		12303'	15L/R 16R(23')	
	34R (23')		13123'	16L (23')	
Parallel TWY 10KTS 이상(R17 MAX 15kts)					
DEP 125.15 – TGU 134.17 – TKO 133.8					
KIX RDR 120.85				Home	
KIX APP 120.25					
KIX : STAR (SAEKI 170, RANDY 150)					
06L	ALISA B	BERRY		ILS Y 06L	
06R	ALISA A	ALLAN		ILS Y 06R	
24L/R	ALISA C	MAYAH		ILS Z 24L/R	
HUD	06L(15')		13123'	24R(23')	
	06R(5')		11483'	24L(12')	
06L : B8(5160'), B6(6751'), 24R : B7(5318'), B9(6751')					
06R : A7(5137'), A6(6938'), 24L : A8(5269'), A9(6976')					
RWY06 : After 2500ft L/G DN, After 1500ft L/D FLAP TAXI RTE 1, 2					

RJBB(KIX) 17ft

KE KIX 130.95

DCL -15분

RKSI(ICN) 23ft

KE ICN 131.5

KIX : SID – SOUJA tx (NADP 1)

06L/R	HELEN x - SOUJA tx	058	058	ATC (9000)	058
24L/R		238	238	ATC (9000)	238
KIE 111.6		06L 108.7	06R 108.1	24L 110.7	24R 108.5
HUD	06L(15')	13123'		24R(23')	
	06R (5')	13123'		24L (12')	
APU Start, TAXI RTE 1, 2					

DEP 119.2

TKO 132.7 – 133.8

TGU 120.57

APP 119.75

Home

ICN : STAR

ILS 33/34	GUKDO xE	ENPIL	GUKDO 180
ILS 15/16	GUKDO xH	MUNAN	GUKDO 180
HUD	33L/R 34L(23')	12303'	15L/R 16R(23')
	34R(23')	13123'	16L(23')
FIX	RWY /8, /5 , YJU R271		

33R : C4(7529'), C5(8513'), 33L : B5('), B6(')

15L : C2(7522'), C1(8536'), 15R : B3('), B2(')

34L : P7(5600'), P8(6578'), 34R : N4(6876'), N5(8507')

16R : P6(5597'), P5(6574'), 16L : N3(7043'), N2(8444')

8NM 180kts, 5NM 160kts, Parr TAXI 10kts이상, HIRO

RKSI(ICN) 23ft			RJAA(NRT) 135ft		
KE ICN 131.5 DCL -10분 TOBT 5분 차이시 CTC Comm			KE Tokyo 131.70		
ICN : SID (33/34 NADP 1, 15/16 NADP 2)					
33L/R	EGOBA xE/A	333	333	5500/ ATC	333
34L/R	EGOBA xY	333	333	ATC	333
15L/R	EGOBA xC	153	153	5000	153
16L/R	EGOBA xH	153	153	5000	153
NCN 113.8		33L 109.3	33R 108.9	15L 111.9	15R 109.1
WNG 112.9		34L 109.95	34R 108.1	16L 110.35	16R 108.55
33L/R : NC05L/R, R242 YJU R271			34L/R : WNG333/4.6, R242 YJU R271		
HUD	33L/R 34L(23')		12303'	15L/R 16R(23')	
	34R (23')		13123'	16L (23')	
Parallel TWY 10KTS 이상(R17 MAX 15kts)					
<a href="#">DEP 125.15 – TGU 134.17 – TKO 133.8 – 133.02</a> <a href="#">TKO 132.45 –124.1– 128.2 – TKO APP 124.4</a>				Home	
NRT : HAKKA 330,YAGAN 240,LIVET 210,SWAMP 150					
34L/R	SWAMP E (SWAMP T)	ELGAR (TYLER)		ILS 34L/R(Z)	
16L/R	SWAMP G (SWAMP N)	GEMIN (NORMA)		ILS Z 16L/R	
HUD	16L(135')		8202'	34R(141')	
	16R(130')		13123'	34L(139')	
FIX	16L : ITM 4 / 34R : ITJ 14, 4 (DME) 16R : IKF 4 / 34L : IYQ 12, 4 (DME)				
16L : B6(6433'), B7(7017'), 34R : B4(5849'), B2(6778') 16R : A6(6076'), A7(7624'), 34L : A5(6167'), A4(7641')					
L/D DOWN before 14/12 DME, L/D FLAP 4 DME Arrival Taxi RTE in Jeppesen (No Numbering)					

RJAA(NRT) 135ft	RKSI(ICN) 23ft
KE Tokyo 131.70 DCL -15분	KE ICN 131.5

NRT : SID – ENPAR tx (NADP 1)

16L/R	TETRA x ENPAR tx	157	157	ATC	157
34L/R		337	337	7000/ATC	337
NRE 117.9	16L 110.7	16R 111.5	34L 111.9	34R 110.9	
HUD	16L(135')	8202'	34R(141')		
	16R (130')	13123'	34L (139')		

34R : CLB 220/10000, A4R21/22/23 220KTS 확인  
 Verity ENPAR tx TETRA 12000A  
 APU Start, TAXI RTE 1, 2, 3, 4 RWY 별 DEP RTE

DEP 124.2

TKO 120.5 – 133.45 – 133.02 – 133.8

TGU 120.57

APP 119.75

**Home**

ICN : STAR

ILS 33/34	GUKDO xE	ENPIL	GUKDO 180
ILS 15/16	GUKDO xH	MUNAN	GUKDO 180
HUD	33L/R 34L(23')	12303'	15L/R 16R(23')
	34R(23')	13123'	16L(23')
FIX	RWY /8, /5 , YJU R271		

33R : C4(7529'), C5(8513'), 33L : B5('), B6(')  
 15L : C2(7522'), C1(8536'), 15R : B3('), B2(')

34L : P7(5600'), P8(6578'), 34R : N4(6876'), N5(8507')  
 16R : P6(5597'), P5(6574'), 16L : N3(7043'), N2(8444')

8NM 180kts, 5NM 160kts, Parr TAXI 10kts이상, **HIRO**

RKSI(ICN) 23ft			RJCC(CTS) 70ft		
KE ICN 131.5 DCL -10분 TOBT 5분 차이시 CTC Comm			Chitose Oper 132.05		
ICN : SID (33/34 NADP 1, 15/16 NADP 2)					
33L/R	EGOBA xE/A	333	333	5500/ ATC	333
34L/R	EGOBA xY	333	333	ATC	333
15L/R	EGOBA xC	153	153	5000	153
16L/R	EGOBA xH	153	153	5000	153
NCN 113.8		33L 109.3	33R 108.9	15L 111.9	15R 109.1
WNG 112.9		34L 109.95	34R 108.1	16L 110.35	16R 108.55
33L/R : NC05L/R, R242 YJU R271			34L/R : WNG333/4.6, R242 YJU R271		
HUD	33L/R 34L(23')		12303'	15L/R 16R(23')	
	34R (23')		13123'	16L (23')	
Parallel TWY 10KTS 이상(R17 MAX 15kts)					
DEP 125.15 – TGU 134.17 – TKO 133.8 – 133.45 – 132.3					
SPR 133.3 –119.3					
CTS APP 120.1				Home	
CTS : STAR (19R for CAT III)					
01R	YOTEI SOUTH (YUKII WEST)	YOTEI not YOSEI		ILS Y/Z 01R	
19L	NAVER(170) YUNEY SOUTH (KAORY A)	KAORY YUNEY (KAORY)		ILS Z 19L	
HUD	01R(57') 01L(62')		9843'	19L(77') 19R(82')	
01R : B4(5278'), B3(7047'), 19L : B8(5177'), B9(7119') 01L : A5(5538'), A4(6961'), 19R : A7(5390'), A8(6873')					
Do not Cross 01L/19R After L/D (No TWY) TAXI to Gate Via D(J) or G					

RJCC(CTS) 70ft	RKSI(ICN) 23ft
Chitose Oper 132.05 NO DCL -5분	KE ICN 131.5

CTS : SID (NADP 1)

ALL	DALBI x SUVIT x SOSHU x	002	002	ATC	002
		182	182	ATC	182
CHE 116.9		01R 110.75	19L 109.35	01L 110.9	19R 111.5
HUD	01R(57') 01L(62')	9843'		19L(77') 19R(82')	

APU, Deicing at the Gate  
R/H turn DCT to HWE -> Confirm R/H Turn ND

[DEP 124.7](#)

[SPR 119.3 – TKO 132.3 – 132.45 – 133.8](#)

[TGU 120.57](#)

[APP 119.75](#)

[Home](#)

ICN : STAR

ILS 33/34	GUKDO xE	ENPIL	GUKDO 180
ILS 15/16	GUKDO xH	MUNAN	GUKDO 180
HUD	33L/R 34L(23')	12303'	15L/R 16R(23')
	34R(23')	13123'	16L(23')
FIX	RWY /8, /5 , YJU R271		

33R : C4(7529'), C5(8513'), 33L : B5('), B6(')  
15L : C2(7522'), C1(8536'), 15R : B3('), B2(')

34L : P7(5600'), P8(6578'), 34R : N4(6876'), N5(8507')  
16R : P6(5597'), P5(6574'), 16L : N3(7043'), N2(8444')

8NM 180kts, 5NM 160kts, Parr TAXI 10kts이상, [HIRO](#)

RKSI(ICN) 23ft			RJTT(HND) 21ft		
KE ICN 131.5 DCL -10분 TOBT 5분 차이시 CTC Comm			Delta Oper 132.075		
ICN : SID (33/34 NADP 1, 15/16 NADP 2)					
33L/R	EGOBA xE/A	333	333	5500/ATC	333
34L/R	EGOBA xY	333	333	ATC	333
15L/R	EGOBA xC	153	153	5000	153
16L/R	EGOBA xH	153	153	5000	153
NCN 113.8		33L 109.3	33R 108.9	15L 111.9	15R 109.1
WNG 112.9		34L 109.95	34R 108.1	16L 110.35	16R 108.55
33L/R : NC05L/R, R242 YJU R271			34L/R : WNG333/4.6, R242 YJU R271		
HUD	33L/R 34L(23')		12303'	15L/R 16R(23')	
	34R (23')		13123'	16L (23')	
Parallel TWY 10KTS 이상(R17 MAX 15kts)					
DEP 125.15 – TGU 134.17 – TKO 133.8 – 133.55 – 123.9					
TKO 133.35					
TKO APP 119.1 – 119.65					
Home					
HND : SPENS 220 (Primary STAR, APP)					
34L	OSHIMA xK	KAIHO	ILS X		
22	OSHIMA xB	BACON	LDA W(RNVW 22)		
16R	OSHIMA R	NATTY	RNP (R16RT)		
23	-	DANON	LDA W(RNVW 23)		
HUD	34L(18') 9843'			16R(77') 8268'	
	34R(21') 9843'			16L(19') 9744'	
	22(35') 8202'			23(55') 8202'	
34L : L12(6515'), L13(7165'), 22 : B4(6207'), B3(6830') 16R : L5(5147'), L3(6361'), 23 : D5(5072'), D3(6391')					
180kts, 160kts limit APP Chart, GND Freq 차트 있음					



**RJTT(HND) 21ft****RKSI(ICN) 23ft**

Delta Oper 132.075

DCL -15분

KE ICN 131.5

**HND : SID – NADP 1**

ALL	BEKLA x OPPAR x		RWY H/D	RWY CRS	ATC	RWY H/D
HME 112.2	34L 111.7	16R 111.55	34R 108.9	16L 111.95	22 108.1	23 110.5
HUD		34L(18') 9843'		16R(77') 8268'		
		34R(21') 9843'		16L(19') 9744'		
		22(35') 8202'		23(55') 8202'		

34L : HME 351/1.1, R095, 34R : HME R080, R095, 22 :  
HME /2.2 R185

34R BEKLA : KAIJI 230kts, TORAM Flap5 SPD  
16L : BEKLA : PLUTO 230kts

[DEP 120.8](#)[TKO 120.5 – 132.45 – 133.02 – 133.8](#)[TGU 120.57](#)[APP 119.75](#)**Home****ICN : STAR**

ILS 33/34	GUKDO xE	ENPIL	GUKDO 180
ILS 15/16	GUKDO xH	MUNAN	GUKDO 180
HUD	33L/R 34L(23')	12303'	15L/R 16R(23')
	34R(23')	13123'	16L(23')
FIX	RWY /8, /5 , YJU R271		

33R : C4(7529'), C5(8513'), 33L : B5('), B6(')

15L : C2(7522'), C1(8536'), 15R : B3('), B2(')

34L : P7(5600'), P8(6578'), 34R : N4(6876'), N5(8507')

16R : P6(5597'), P5(6574'), 16L : N3(7043'), N2(8444')

8NM 180kts, 5NM 160kts, Parr TAXI 10kts이상, **HIRO**

<u>RKSI(ICN) 23ft</u>	<u>RJGG(NGO) 12ft</u>
KE ICN 131.5 DCL -10분 TOBT 5분 차이시 CTC Comm	SWISSPORT OPERATION 132.05

ICN : SID (33/34 NADP 1, 15/16 NADP 2)

33L/R	EGOBA xE/A	333	333	5500/ ATC	333
34L/R	EGOBA xY	333	333	ATC	333
15L/R	EGOBA xC	153	153	5000	153
16L/R	EGOBA xH	153	153	5000	153
NCN 113.8	33L 109.3	33R 108.9	15L 111.9	15R 109.1	
WNG 112.9	34L 109.95	34R 108.1	16L 110.35	16R 108.55	
33L/R : NC05L/R, R242 YJU R271		34L/R : WNG333/4.6, R242 YJU R271			
HUD	33L/R 34L(23')	12303'	15L/R 16R(23')		
	34R (23')	13123'	16L (23')		

Parallel TWY 10KTS 이상(R17 MAX 15kts)

DEP 125.15

TGU 134.17 – TKO 133.8 – 133.02

센트레아 APP – 121.05

**Home**

NGO : STAR (SAMON 290, MARIA 130)

36	CHESS(CARDS) SOUTH	PROBE	ILS Z 36
18	CHESS(CARDS) NORTH	QUEST	ILS Z 18
HUD	36(15')	11483'	18(15')

36 : A6(5213'), A7(6525'), A8(7837')

18 : A5(5393'), A4(6528'), A3(7841')

RWY36 : After 1500ft L/D FLAP  
RWY 18 : After 3000ft L/G DN & L/D FLAP  
Caution Stop line, Yellow Ramp line, VDGS!!!

RJGG(NGO) 12ft			RKSI(ICN) 23ft		
SWISSPORT OPERATION 132.05 DCL -15분			KE ICN 131.5		
NGO : SID – TANGO tx (NADP 1)					
36	OUMI x - TANGO tx	356	356	ATC (7000)	356
18		176	176	ATC (7000)	176
CBE 117.8		36 109.7		18 111.9	
HUD	36(15')	11483'		18(15')	
APU Start 30min, Prepare Intersection T/O					

[DEP 120.0](#)

[TKO 133.55 – 133.8 – TGU 120.52](#)

[APP – 119.75](#)

[Home](#)

ICN : STAR			
ILS 33/34	GUKDO xE	ENPIL	GUKDO 180
ILS 15/16	GUKDO xH	MUNAN	GUKDO 180
HUD	33L/R 34L(23')	12303'	15L/R 16R(23')
	34R(23')	13123'	16L(23')
FIX	RWY /8, /5 , YJU R271		
33R : C4(7529'), C5(8513'), 33L : B5('), B6(') 15L : C2(7522'), C1(8536'), 15R : B3('), B2(')			
34L : P7(5600'), P8(6578'), 34R : N4(6876'), N5(8507') 16R : P6(5597'), P5(6574'), 16L : N3(7043'), N2(8444')			
8NM 180kts, 5NM 160kts, Parr TAXI 10kts이상, HIRO			

**RKSS(GMP) 59ft****ZSSS(SHA) 10ft**

KE GMP 131.15  
DCL -15분 가능 TOBT 5분 차이  
시 CTC Comm

China Eastern 131.5

Rwy 32R **Takeoff**

(06:00L~0900L / 12:00L~15:00L  
/18:00L~21:00L)

**GMP : SID (NADP 1)**

32L/R	<b>BULTI xT</b>	<b>324</b>	<b>324</b>	<b>5000</b>	<b>324</b>
	(BULTI xQ)	324	324	5000	324
14L/R	<b>BULTI xU</b>	<b>144</b>	<b>144</b>	<b>6000</b>	<b>144</b>
	(BULTI xZ)	144	144	6000	144
<b>KIP</b> 113.6	<b>32L</b> 108.3	<b>32R</b> 110.7	<b>14L</b> 109.9	<b>14R</b> 108.7	

32L/R : KIP324/5, R220  
YJU R271

14L/R : KIP144/4, R220  
P73 /2

HUD	<b>32L(41')</b>	<b>10499'</b>	<b>14R(34')</b>
	<b>32R(42')</b>	<b>11811'</b>	<b>14L(38')</b>

APRON(130.875) -&gt; GND(121.9) -&gt; TWR (All by ATC)

[CJU 124.52](#)[SHA 120.95](#)[SHA APP - 125.625 - 125.4 - 126.65](#)**Home****SHA : STAR**

SPD Rest From IAF(210kts), 180kts, 160kts

ILS Z 18L	PUD 61A	SS204	above 2960ft PUD QRH Below 2960ft SHA QRH
ILS Z 36R	PUD 71A	SS405	
HUD	<b>18L(6')</b>	<b>10499'</b>	<b>36R(9')</b>

18L: A3(6555'), A4(7578') 36R: A2(5738'), A1(7089')

Traffic PTN West of RWY, Landing East RWY Normally  
**Des 550m (1800ft)**

L08, L09 not available B737  
Shall CTC Apron Before Entering

ZSSS(SHA) 10ft

China Eastern 131.5  
DCL -20분, READ BACK!

RKSS(GMP) 59ft

KE GMP 131.15

Rwy 32L **Landing**  
(06:00L~0900L / 12:00L~15:00L  
/18:00L~21:00L)

R

L

L

R

SHA : SID (NADP 1)

N DEP Freq : 126.65 South DEP : 121.10 (without ATC)

18R	LAMEN 61D	183	183	3000 (900m)	183
36L	LAMEN 73D	003	003	3000 (900m)	003
	LAMEN 71D	003	003	3000 or 4900	003
SHA 117.2		18L 111.3		36R 110.3	
HUD	18R (9')		10827'		36L (76')

RWY 36L LAMEN 71D : L/H Turn Below 200m(660ft) in DCL  
[DEP 121.1](#)  
[SHA APP 125.4 – 125.625 – SHA 120.95](#)  
[ICN 125.725 – 124.52](#)  
[APP – 119.75](#)

Home

GMP : STAR

ILS 32L/R	OLMEN xT	BUMSI	OLMEN 160
ILS 14R	OLMEN xU	DOKDO	OLMEN 160
HUD	32L(41')	10499'	14R(34')
	32R(42')	11811'	14L(38')
FIX	KIP /8(RWY 32), YJU R271, P73 /2		

32L : D3(6532'), E2(9117'), 32R : E1(6614')  
14R : C1(6578')

32L/R : 8 KIP L/G, 14R : LOC CAPT L/G  
FAF : Final Flap  
TWR -> GND -> APRON (All by ATC)  
Except RWY14R Landing (Until R)

**RKSS(GMP) 59ft****RJBB(KIX) 17ft**

KE GMP 131.15

DCL -15분 가능 TOBT 5분 차이  
시 CTC Comm

KE KIX 130.95

Rwy 32R **Takeoff**(06:00L~0900L / 12:00L~15:00L  
/18:00L~21:00L)**GMP : SID (NADP 1)**

32L/R	EGOBA xT	324	324	5000	324
	(EGOBA xQ)	324	324	5000	324
14L/R	EGOBA xU	144	144	6000	144

KIP  
113.632L  
108.332R  
110.714L  
109.914R  
108.732L/R : KIP324/5, R220  
YJU R27114L/R : KIP144/4, R220  
P73 /2

HUD

32L(41')

10499'

14R(34')

32R(42')

11811'

14L(38')

APRON(130.875) -&gt; GND(121.9) -&gt; TWR (All by ATC)

DEP 125.15 – TGU 134.17 – TKO 133.8KIX RDR 120.85KIX APP 120.25**Home****KIX : STAR (SAEKI 170, RANDY 150)**

06L	ALISA B	BERRY	ILS Y 06L
06R	ALISA A	ALLAN	ILS Y 06R
24L/R	ALISA C	MAYAH	ILS Z 24L/R
HUD	06L(15')	13123'	24R(23')
	06R(5')	11483'	24L(12')

06L : B8(5160'), B6(6751'), 24R : B7(5318'), B9(6751')

06R : A7(5137'), A6(6938'), 24L : A8(5269'), A9(6976')

RWY06 : After 2500ft L/G DN, After 1500ft L/D FLAP  
TAXI RTE 1, 2

**RJBB(KIX) 17ft**

## RKSS(GMP) 59ft

KE KIX 130.95

DCL -15분

KE GMP 131.15

## Rwy 32L Landing

(06:00L~0900L / 12:00L~15:00L)

/18:00L~21:00L)



## KIX : SID – SOUJA tx (NADP 1)

06L/R	HELEN x - SOUJA tx	058	058	ATC (9000)	058
24L/R		238	238	ATC (9000)	238
KIE 111.6		06L 108.7	06R 108.1	24L 110.7	24R 108.5
HUD	06L(15')	13123'		24R(23')	
	06R (5')	13123'		24L (12')	

APU Start, TAXI RTE 1, 2

## DEP 119.2

TKO 132.7 – 133.8

TGU 120.57

APP 119.75

[Home](#)

**GMP : STAR**

ILS 32L/R	GUKDO xT	BUMSI	OLMEN 160
ILS 14R	GUKDO xU	DOKDO	OLMEN 160
HUD	32L(41')	10499'	14R(34')
	32R(42')	11811'	14L(38')
FIX	KIP /8(RWY 32), YJU R271, P73 /2		

**32L : D3(6532'), E2(9117'), 32R : E1(6614')**

**14R : C1(6578')**

32L/R : 8 KIP L/G, 14R : LOC CAPT L/G

FAF : Final Flap

TWR -> GND -> APRON (All by ATC)

Except RWY14R Landing (Until R)

RKSI(ICN) 23ft			ZSNJ(NKG) 49ft		
KE ICN 131.5 DCL -10분 TOBT 5분 차이시 CTC Comm			None		
ICN : SID (33/34 NADP 1, 15/16 NADP 2)					
33L/R	BOPTA xA	333	333	ATC	333
34L/R	BOPTA xY	333	333	ATC	333
15L/R	BOPTA xC	153	153	5000	153
16L/R	BOPTA xH	153	153	5000	153
NCN 113.8		33L 109.3	33R 108.9	15L 111.9	15R 109.1
WNG 112.9		34L 109.95	34R 108.1	16L 110.35	16R 108.55
33L/R : NC05L/R, R242 YJU R271			34L/R : WNG333/4.6, R242 YJU R271		
HUD	33L/R 34L(23')		12303'	15L/R 16R(23')	
	34R (23')		13123'	16L (23')	
Parallel TWY 10KTS 이상(R17 MAX 15kts)					
DEP 125.15 – TGU 126.17 – 120.72 – 124.52(125.72)					
SHA 120.95 – 120.55 – 125.95 – 119.075					
NKG APP 126.55 – 119.25					
NKG : STAR ('D' N31 34.0 E118 42.1 – R101, R289)					
07 (06)	ESB 71F/21A (ESB 61F/11A)		SNQ	ILS Z 07 (ILS Z 06)	
25 (24)	ESB 52F/22A (ESB 42F/12A)		NJ210	ILS Z 25 (ILS Z 24)	
HUD	07(41')		11811'	25(39')	
	06(43')		11811'	24(38')	
07 : D5(6499'), D6(7582'), 25 : D2(6505'), D1(7582') 06 : A5(6614'), A6(7860'), 24 : A3(6637'), A9(7864')					
IAF, Missed App SPD APP : 210kts or 205kts Follow Me Car on C 13, APU off Procedure					



ZSNJ(NKG) 49ft

RKSI(ICN) 23ft

None  
DCL 가능, READ BACK!

KE ICN 131.5

NKG : SID (NADP 1)  
(ATC Hold Expected Fuel Add!!)

06 (07)	ESB 61X/11D (ESB 71X/21D)	064	064	3000 (900m)	064
24 (25)	ESB 42X/12D (ESB 52X/22D)	244	244	3000 (900m)	244
NJL 113.6		07 108.7	25 111.3	06 110.3	24 110.9
HUD	06(43') 07(41')		11811'		24(38') 25(39')

APU Start, TUG Connect After Beacon L/T ON

DEP 119.25

NKG APP 126.55

SHA 119.075 – 125.95 – 120.55 – 120.95

ICN 125.725(124.52) – 120.72 – 126.17

APP – 119.75

Home

ICN : STAR

ILS 33/34	OLMEN xE	ENPIL	OLMEN 180
ILS 15/16	OLMEN xH	MUNAN	OLMEN 180
HUD	33L/R 34L(23')	12303'	15L/R 16R(23')
	34R(23')	13123'	16L(23')
FIX	RWY /8, /5 , YJU R271		

33R : C4(7529'), C5(8513'), 33L : B5('), B6(')

15L : C2(7522'), C1(8536'), 15R : B3('), B2(')

34L : P7(5600'), P8(6578'), 34R : N4(6876'), N5(8507')

16R : P6(5597'), P5(6574'), 16L : N3(7043'), N2(8444')

8NM 180kts, 5NM 160kts, Parr TAXI 10kts이상, HIRO



<u>ZSQD(TAO) 30ft</u>			<u>RKSI(ICN) 23ft</u>		
None DCL 가능, READ BACK! (Voice 10분전 부터)			KE ICN 131.5		
TAO : SID (NADP 1)					
34 (35)	LAT 91D/01D	350	350	ATC 3000 (900m)	350
16 (17)	LAT 81D/11D	170	170	ATC 3000 (900m)	170
JDG 114.45	17 110.15	35 109.75	16 111.9	34 108.55	
HUD	34(27') 35(27')		11811'		16(27') 17(29')
Heading 190, Join W209 -> DCT LATUX CRS 147					

[APP 119.4](#)

[TAO APP 124.6](#)

[TAO 134.85 – 133.72 – DLC 132.95](#)

[ICN 132.8 – APP 119.75](#)



ICN : STAR			
ILS 33/34	REBIT xA	PAMBI	REBIT 170
ILS 15/16	REBIT xH	MUNAN	REBIT 170
HUD	33L/R 34L(23')	12303'	15L/R 16R(23')
	34R(23')	13123'	16L(23')
FIX	RWY /8, /5 , P518 R068, R278		
33R : C4(7529'), C5(8513'), 33L : B5('), B6(') 15L : C2(7522'), C1(8536'), 15R : B3('), B2(')			
34L : P7(5600'), P8(6578'), 34R : N4(6876'), N5(8507') 16R : P6(5597'), P5(6574'), 16L : N3(7043'), N2(8444')			
8NM 180kts, 5NM 160kts, Parr TAXI 10kts이상, HIRO			

## WELCOME 방송

손님 여러분, 안녕하십니까?

저는 기장 \_\_\_\_\_입니다.

저희 대한항공을 이용해 주셔서 대단히  
감사합니다.

여러분을 목적지 \_\_\_\_\_(국제)공항까지  
안전하게 모시기 위해 최선을 다하겠습니다.

감사합니다.

Good morning (afternoon /evening),  
ladies and gentlemen.

This is captain last name speaking.

Welcome aboard Korean Air. This flight is  
bound for \_\_\_\_\_(international) airport.

Please enjoy the flight. Thank you.

RKSS	서울/김포국제	RJBB	오사카/간사이
RKSI	서울/인천국제	RJTT	도쿄/하네다
RKPC	제주국제	RJAA	도쿄/나리타
RKPK	부산/김해국제	RJCC	삿포로/신(뉴) 치토세
RKTU	청주국제	RJGG	나고야/주부(센트레아)
RKJJ	광주	ZSSS	상하이/홍차오
RKTN	대구국제	ZSNJ	난징/루커우
		ZSQD	칭다오/자오둥

# Meter/Feet Conversion Table

❑ China, Mongolia & North Korea

■ FL Conversion

Westbound (180° ~ 359° )	
<b>13100 M</b>	<b>43000 FT</b>
12200 M	40100 FT
<b>11600 M</b>	<b>38100 FT</b>
11000 M	36100 FT
<b>10400 M</b>	<b>34100 FT</b>
9800 M	32100 FT
<b>9200 M</b>	<b>30100 FT</b>
8400 M	27600 FT
<b>7800 M</b>	<b>25600 FT</b>
7200 M	23600 FT
<b>6600 M</b>	<b>21700 FT</b>
6000 M	19700 FT
<b>5400 M</b>	<b>17700 FT</b>
4800 M	15700 FT
<b>4200 M</b>	<b>13800 FT</b>
<b>3600 M</b>	<b>11800 FT</b>
<b>3000 M</b>	<b>9800 FT</b>
2400 M	7900 FT
<b>1800 M</b>	<b>5900 FT</b>
1200 M	3900 FT

TL  
TA

Eastbound (360° ~ 179° )	
13700 M	44900 FT
<b>12500 M</b>	<b>41100 FT</b>
11900 M	39100 FT
<b>11300 M</b>	<b>37100 FT</b>
10700 M	35100 FT
<b>10100 M</b>	<b>33100 FT</b>
9500 M	31100 FT
<b>8900 M</b>	<b>29100 FT</b>
8100 M	26600 FT
<b>7500 M</b>	<b>24600 FT</b>
6900 M	22600 FT
<b>6300 M</b>	<b>20700 FT</b>
5700 M	18700 FT
<b>5100 M</b>	<b>16700 FT</b>
4500 M	14800 FT
<b>3900 M</b>	<b>12800 FT</b>
3300 M	10800 FT
<b>2700 M</b>	<b>8900 FT</b>
2100 M	6900 FT
<b>1500 M</b>	<b>4900 FT</b>

■ ALT / HEIGHT Conversion

**550M**

**1800ft**

Meter	Feet	Meter	Feet
1000 M	3300 FT	500M	1600FT
<b>900 M</b>	<b>3000 FT</b>	<b>450M</b>	<b>1500FT</b>
800 M	2600 FT	400 M	1300 FT
<b>700 M</b>	<b>2300 FT</b>	<b>350 M</b>	<b>1100 FT</b>
600 M	2000 FT	300 M	1000 FT

**Home**

## COLD TEMP CORRECTION 1/2

Min 은 반드시 수정 (중간 고도 CORRECTION은 PIC 결정)  
Missed App 고도는 ATC 협조 필요

### GMP 32L (261') / 32R (262') / 14R (254')

32L/R	8000	5500	4000	2800	2300	2000	4000
0	8450	5810	4230	2970	2440	2120	4230
-5	8620	5930	4310	3030	2490	2160	4310
-10	8780	6040	4390	3080	2530	2200	4390
R14	4000	2800	1400		4000		
0	4230	2970	1490		4230		
-5	4310	3030	1520		4310		
-10	4390	3080	1540		4390		

### CJU 07 (307') / 25 (296')

	4000	2900	1800	07	8000	25	6000
0	4220	3070	1900		8450		6340
-5	4300	3130	1940		8620		6460
-10	4380	3180	1970		8780		6590

### CJJ 06L (387') / 24R (296')

06L	4400	3900	3000	2100		7000	
0	4650	4110	3170	2210		7390	
-5	4740	4200	3230	2270		7540	
-10	4810	4260	3280	2290		7670	
24R	6000	3700	2500	2100		6000	
0	6330	3900	2640	2210		6330	
-5	6460	3980	2700	2270		6460	
-10	6570	4040	2730	2290		6570	

COLD TEMP CORRECTION 2/2							
ICN ALL RWY (243')							
33/34	7000	6000	5000	3600	2600	1600	
0	7400	6340	5290	3810	2760	1700	
-5	7520	6460	5390	3880	2810	1730	
-10	7680	6580	5490	3950	2860	1760	
15/16	3000	2600	1600		4000		3000
0	3170	2760	1700		4230		3170
-5	3230	2810	1730		4310		3230
-10	3290	2860	1760		4390		3290
KWJ 04R(266'),04L(610') / 22L(610')							
04L/R	4000	3000	2000				7000
0	4230	3170	2120	Home			7500
-5	4310	3230	2160				7590
-10	4390	3290	2200				7680
22L	5000	4100	3500	2900	2200		4000
0	4230	3170	2120	3070	2340		4230
-5	4310	3230	2160	3130	2430		4310
-10	4390	3290	2200	3190	2420		4390
PUS 36L(233'),36R(228') / 18L/R (see below)							
36L/R	6000	5000	3300	2100		6000	
0	6340	5290	3490	2210		6340	
-5	6460	5390	3560	2250		6460	
-10	6580	5490	3620	2290		6580	
18L/R	6000	5000	4000	2600	1700		6000
0	6340	5290	4230	2760	1800		6340
-5	6460	5390	4310	2810	1830		6460
-10	6580	5490	4390	2860	1870		6580

## COLD Wx 1/2

OAT (GND) / TAT (TAT) is 10°C (50°F) or below :

- visible moisture (clouds, fog with VIS 1SM (1600 m) or rain, snow, sleet, ice crystals...)
- ice, snow, slush and standing water is present on the ramps, taxiways, or runways.

### PREFLIGHT

- PROBE HEAT switches . . . . . ON

### ENGINE START

(-35도 TH변경전 2분간 IDLE)

(Min Oil Press 까지 IDLE 유지 (수분간))

(Oil Temp – Nor 후 Oil Press High시 ShutDown)

### ENGINE ANTI-ICE

- ENGINE START switches . . . . .CONT

- ENGINE ANTI-ICE switches . . . . .ON

(COWL V/V OPEN 지속 Bright시 APU Bleed OFF,  
ISO V/V AUTO, TH 서서히 Max 30%)

### WING ANTI-ICE

- WING ANTI-ICE switch . . . . .ON

(Type II or IV Deicing안할 거면 사용하라)

### AFTER START

- GENERATOR 1 and 2 switches. . . . . ON

(IDG 1분 이내 안정, 5분 이내 Steady Power)

- FLIGHT controls . . . . . Check

(Deicing 할거면 Deicing 하고 한다.)

- FLAPS . . . . . Check

(Full Travel UP – 40 – UP, **FLAP UP 고려**)

### TAXI OUT

(OAT 3도 이하 RUN UP : Behind CLR, 70% 허락  
하는한, 30초, 30분 간격) -8 : (50%-IDLE, 60분간  
격)

(Ice Shedding : freezing rain, freezing  
drizzle, freezing fog or heavy snow – 70%, 1초,  
10분간격) -8 : 없음



**BEFORE T/O** Takeoff Signal - **FLAPS 5**  
- **FLAPS** ..... **SET**

**TAKEOFF (-8 : Oil Temp 31도 이상)**  
- **THRUST** ... (min 70%(50%), 30초(5초))**RUNUP**  
(ENG ANTI-ICE + OAT 3도이하)  
**NO RUNUP(OAT 3도이상) NG 70%, -8 : 50% 5초**

## ENGINE ANTI-ICE

- **ENGINE START** switches ..... **CONT**  
- **ENGINE ANTI-ICE** switches ..... **ON**  
(-40도 이하 금지, 강하중 가능)  
(COWL V/V OPEN 지속 Bright시 APU Bleed OFF,  
ISO V/V AUTO, TH 서서히 Max 30%)

## FAN ICE REMOVAL

(Moderate Severe 가능하면 회피하라 아니면..)  
- **ENGINE START** switches (both) ..... **FLT**  
- **Autothrottle** (if engaged) ..... **Disengage**  
- **THRUST** ..... (min 80%, 1 초) **Increase**  
(15초이내 Vib 4.0이하 안정화 15분 간격 반복)  
- **Autothrottle** (if needed) ..... **Engage**  
(4.0 보다 크면 Engine High Vibration Check  
List!!!)

## WING ANTI-ICE

(Icing 보이면 Deicer로 사용, Anti-icer도 사용가능)  
(FL350이상 사용금지 -> Emer Descend)  
(Icing 지역 Holding - Flap 사용금지)  
- **WING ANTI-ICE** switch ..... **ON**

## APPROACH L/D

(FLAP 15 필수 조건일 경우만 VREF ICE 사용)

## AFTER L/D, SHUTDOWN

(TAXI RUNUP, ICE SHEDDING 절차적용)  
- **FLAPS** ..... **15** 까지만  
- **ENG ANTI-ICE** ..... **ENG ShutDown**전 **OFF**  
- **Stabilizer trim** ..... **Set 5 units**  
- **ENGINE** ..... **ShutDown**

## ENG ON Deicing in ICN

ICN Deicing "Deicing Required ENG On Deicing"  
ICN Apron "Req Pushback Deicing Zone xxx"

**Tx 2000** -> Pad Control -> Ice Man

**PARKING BRAKE ----- SET**

Report Parking Brake SET - > Ice Man

**B737-8 BROADBAND SYS s/w ----- OFF**

**FLAPS ----- UP**

**THRUST LEVERS ----- IDLE**

**ENGINE BLEED AIR SWITCHES ----- OFF**

**APU BLEED air switch ----- OFF**

**START DE/ANTI-ICING REQ DCL**

항공기이동 및 Configuration 변경 금지

**AFTER DE/ANTI-ICING IS COMPLETED**

**(TIME CHECK 1분)**

용액과 마지막 용액 뿌린 시간 받고 적는다.

Holdover Time 결정!!!

**TIME CHECK 1분후**

**APU BLEED air switch ----- As needed**

**Engine BLEED air switches ----- ON**

**FLAP LEVER ----- Set for takeoff or UP**

ice, snow, slush or standing water, 강수 지속시 –  
FLAP UP고려

**Flight controls ----- Check, as needed**

**After Start Checklist**

**TAXI OUT**

(OAT 3도 이하 RUN UP : Behind CLR, 70% 허락  
하는한, 30초, 30분 간격) **-8 : (50%-IDLE, 60분간격)**

**BEFORE TAKEOFF**

**TAKEOFF SIGNAL -> FLAPS 5**

**FLAPS ----- Set(for takeoff)**

**TAKEOFF (-8 : Oil Temp 31도 이상)**

**- THRUST ... (min 70%(50%), 30초(5초))RUNUP**  
(ENG ANTI-ICE + OAT 3도이하)

**NO RUNUP(OAT 3도이상) NG 70%, -8 : 50% 5초**

**DECISION TREE next page**

**Home**

# TAKEOFF DECISION TREE

## DE/ANTI-ICE AIRCRAFT

Holdover Time Begins

NOT  
CLEAN

COCKPIT  
CHECK  
①

CLEAN

TAKEOFF

NOT SURE

NOT  
CLEAN

CABIN  
CHECK  
②

CLEAN

TAKEOFF  
within  
5 mins.

If unable,  
repeat Cabin  
Check or  
External  
Check.

NOT SURE

NOT  
CLEAN

EXTERNAL  
CHECK  
③

CLEAN

Holdover Time Ends

- Frost  
- Freezing Fog  
- Snow

- Freezing Drizzle  
- Light Freezing Rain  
- Rain on Cold  
Socked Wings

NOT  
CLEAN

CABIN  
CHECK  
②

CLEAN

NOT SURE

NOT  
CLEAN

EXTERNAL  
CHECK  
③

CLEAN

TAKEOFF  
within  
5 mins.  
If unable,  
repeat  
Cabin  
Check.

Fluid  
Type

TYPE I

Type II & IV

EXTERNAL  
CHECK  
③

NOT  
CLEAN

CLEAN

TAKEOFF within 5 mins.  
If unable, repeat De/Anti-icing

## ENG OFF Deicing in GMP...

KE GMP "Deicing Information" **REQ DCL**  
Apron "Req Pushback Deicing Required PADxxx"

**PARKING BRAKE ----- SET**

Establish communications with GND personnel.

**B737-8 BROADBAND SYS s/w ----- OFF**

**FLAPS ----- UP**

**THRUST LEVERS ----- IDLE**

**ENGINE BLEED AIR SWITCHES ----- OFF**

**APU BLEED air switch ----- OFF**

**APU ----- START**

**APU GENERATOR bus switches ----- ON**

**ENGINE ANTI-ICE switches ----- OFF**

**Engine Start levers ----- CUTOFF**

**SHUTDOWN CHECKLIST**

### START DE/ANTI-ICING

항공기이동 및 Configuration 변경 금지

### AFTER DE/ANTI-ICING IS COMPLETED

**(TIME CHECK 1분)**

용액과 마지막 용액 뿌린 시간 받고 적는다.

Holdover Time 결정!!!

**Home**

**TIME CHECK 1분후**

**APU BLEED air switch ----- ON**

**PREFLT CHKlist -> Req STARTUP -> CHKlist**

### AFTER BOTH ENGINES ARE STARTED

**ENGINE ANTI-ICE switches-----As needed**

**B737-8 BROADBAND SYS s/w ----- ON**

**APU----- As needed**

**Engine BLEED air switches ----- ON**

**FLAP LEVER ----- Set for takeoff or UP**

ice, snow, slush or standing water, 강수 지속시 –  
FLAP UP고려

**Flight controls ----- Check, as needed**

**AFTER START CHKlist (ATC CLR Confirm)**

**TAXI, BEFORE TAKEOFF, TAKEOFF**

cold wx 참조!!! **DECISION TREE next page**

# TAKEOFF DECISION TREE

## DE/ANTI-ICE AIRCRAFT

Holdover Time Begins

NOT  
CLEAN

COCKPIT  
CHECK  
①

CLEAN

TAKEOFF

NOT SURE

NOT  
CLEAN

CABIN  
CHECK  
②

CLEAN

TAKEOFF  
within  
5 mins.

If unable,  
repeat Cabin  
Check or  
External  
Check.

NOT SURE

NOT  
CLEAN

EXTERNAL  
CHECK  
③

CLEAN

Holdover Time Ends

- Frost  
- Freezing Fog  
- Snow

- Freezing Drizzle  
- Light Freezing Rain  
- Rain on Cold  
Socked Wings

NOT  
CLEAN

CABIN  
CHECK  
②

CLEAN

NOT SURE

NOT  
CLEAN

EXTERNAL  
CHECK  
③

CLEAN

TAKEOFF  
within  
5 mins.  
If unable,  
repeat  
Cabin  
Check.

Fluid  
Type

TYPE I

Type II & IV

EXTERNAL  
CHECK  
③

NOT  
CLEAN

CLEAN

TAKEOFF within 5 mins.  
If unable, repeat De/Anti-icing

# PUS VOR 18L/R

RKPK ARRIVALS 1/1  
 STARS RTE 2 RUNWAYS  
 VOR18R<SEL> <SEL>18R  
 TRANS  
 GAYHA<SEL>  
 RHY EXT  
 -- . -NM  
 FPA  
 - . -

STARS RUNWAYS  
 VOR18L/R 18L/R  
 TRANS. **KMH22** Vref+wind  
 GAYHA (Modify Required)

**FIX : KMH 280(Base Turn), 283(Missed App)**



## Missed App

Base Turn 이전 : L/H Turn **KMH 283** OUTBD  
 (SEL HDG SEL – INT H/D - VOR/LOC Engage)

Base Turn 이후 : Continue R/H Turn **KMH 283**  
 OUTBD  
 (SEL HDG SEL – INT H/D - VOR/LOC Engage)

**Home**

**LOC 36 Circling  
 Next Page**

# PUS LOC 36L/R Circling 18L/R

RKPK ARRIVALS 1/1  
STARS RTE 2 RUNWAYS  
36L18R<SEL> <SEL>18R  
TRANS  
GEOJE<SEL>

RWY EXT  
-- . -NM  
FPA  
- . -

STARS

36L18L/R

TRANS. **KMH22** Vref+wind

GEOJE (Modify Required)

RUNWAYS

18L/R

**CI36L(CF36R) 3500 FI36L(FF36R) 2100**

**FIX : KMH 280(Base Turn), 310(Missed App)**



## Missed App

Base Turn 이전 : L/H Turn **KMH 310** OUTBD  
(SEL HDG SEL – INT H/D - VOR/LOC Engage)

Base Turn 이후 : Continue R/H Turn **KMH 310**  
OUTBD  
(SEL HDG SEL – INT H/D - VOR/LOC Engage)

**Home**

GS KTS	KM	MILES
300	560	350
310	570	360
320	590	370
330	610	380
340	630	390
350	650	400
360	670	410
370	690	430
380	710	440
390	720	450
400	740	460
410	760	470
420	780	480
430	800	500
440	820	510
450	830	520
460	850	530
470	870	540
480	890	550
490	910	560
500	930	580
510	950	590
520	960	600
530	980	610
540	1000	620
550	1020	630
560	1040	650
570	1060	660
580	1070	670
590	1090	680
600	1110	690
610	1130	700
620	1150	710
630	1170	730
640	1190	740
650	1200	750
660	1220	760
670	1240	770
680	1260	780
690	1280	800
700	1300	810