

BMS KTO AIP



Author:
Benchmark Sims

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**BMS 4.36.3
KOREAN THEATER OPERATION**

AERONAUTICAL INFORMATION PUBLICATION

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CONSULT NOTAMs for latest information

PART ONE: GENERAL (GEN)

GEN 1.1 PREFACE

1. Name of publishing authority

This BMS AIP is published by Benchmark Sims and is relevant to BMS 4.36 only. Under no circumstances should it be used for real world navigation.

2. BMS AIP Structure

The BMS AIP is made of three parts:

General (GEN)
Enroute (ENR)
Aerodromes (AD)

Each is divided into sections and subsections as applicable and contains various types of information. For instance, each BMS theatre of operation will have a unique AIP but its subsections will be separated country by country or allied vs opposing forces.

The BMS AIP does not follow the same sub-structure as the real AIP – too many subsections are irrelevant to BMS.

3. BMS AIP amendment

BMS AIP will be updated according to relevant changes in BMS. Amendment will be published soon after a new release of BMS.

V 5.1 Published May 2022 for BMS 4.36 release.

V 5.0 Published April 2022 for BMS 4.36 release.

V 4.0 Published September 2020 for BMS 4.35 release.

V 3.0 Published February 2019 for BMS 4.34 release.

V 2.1 Published October 2015 for BMS 4.33 release.

V 2.0 Published September 2014: BMS 4.33

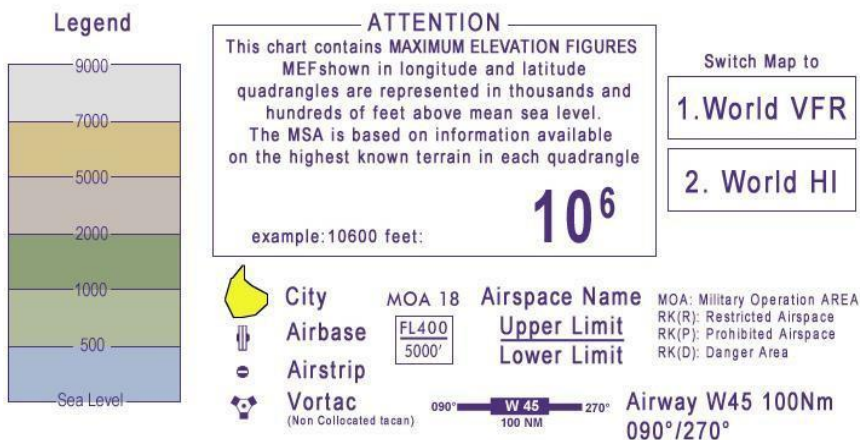
V1.0 Published March 2013: BMS 4.32..

4. BMS AIP validity over real world navigation data

Real world navigation data is updated continuously and changes rather quickly over time. BMS on the other hand does not need to be updated quite so often. If the Falcon KTO was quite close to real Korea 15 years ago, it might be well different today. Code-wise we cannot track the slightest change of frequency, or restricted airspace, or airbase accuracy into the BMS virtual world. As a consequence deviation from real world data may be noticed.



5. Chart symbols



Navaid station enroute type (E) longer range 120-200Nm



Navaid station Approach type (A) short range : 40-80Nm





GEN 1.2 LIST OF RADIO NAVIGATION AID

1.2.1 TACANS

(Type A = Approach / Type E = Enroute) Reception range may vary with altitude. Displayed ranges are low altitude ranges.

Station Name	ID	Channel/band	Type	Range (Nm)
1.2.1.1. South Korea				
Cheongju	CHO	042X	A	35
Daegu	TAE	125X	A	35
Gangneung	KOG	056X	A	70
Gimhae	KMH	117X	A	140
Gimpo	KIP	083X	A	35
Gunsan	KUZ	075X	E	140
Gwangju	KWA	091X	E	140
Incheon	NCN	076X	A	35
Jungwon	CHW	005X	A	70
Osan	OSN	094X	E	140
Pohang	KPO	072X	E	100
Pyeongtaek	PTK	019X	A	35
Sacheon	SAC	037X	A	35
Seosan	SAN	052X	A	35
Seoul	SOL	046X	A	35
Sokcho	SOK	059X	A	40
Suwon	SWN	022X	A	70
Wonju	HGS	060Y	A	40
Yecheon	CUN	026X	A	100



Station Name	ID	Channel/band	Type	Range (Nm)
1.2.1.2. Japan				
Hiroshima	HGN	024X	E	35
Iwami	IWA	057X	E	140

Station Name	ID	Channel/band	Type	Range (Nm)
1.2.1.3. North Korea				
Kalma	WS	054X	A	70
Samjiyon	SJ	050X	E	100
Sunan	GK	051X	E	140
Toksan	TK	053X	A	70
Uiju	CR	055X	E	100

Station Name	ID	Channel/band	Type	Range (Nm)
1.2.1.4. China				
Shenyang	SH	088X	A	140

1.2.1.5. Russia

Nil



1.2.2 VORTACs

(Type A= Approach / Type E = Enroute) Reception range may vary with altitude. Displayed ranges are low altitude nominal ranges.

Station Name	ID	Channel/band	Type	Range (Nm)
1.2.2.1 South Korea				
Anyang	SEL	102X	E	100
Gangwon	KAE	103X	E	140
Incheon	NCN	085X	E	100
Mokpo	MKP	049X	A	70
Muan	MUN	065X	A	40
Pusan	PSN	087X	E	200
Talsung	TGU	059X	E	140
Ulsan	USN	062X	A	40
Wonju	HGS	039X	A	40
Yangju	YJU	096X	E	140
Yangyang	YAG	043X	A	40
Yeosu	YSU	104X	A	40

Station Name	ID	Channel/band	Type	Range (Nm)
1.2.2.2. Japan				
Iwakuni	IJO	126X	A	100
Tsushima	VCE	064X	E	120
Yamaguchi	UBE	045X	E	120

1.2.2.3. North Korea

Nil

1.2.2.4. China

Nil

1.2.2.5. Russia

Nil



1.2.3 ILS

Station Name	ID	freq	Type	RWY
1.2.3.1. South Korea				
Cheongju	ICHG	111.7	ILS	24R
Daegu	ITGU	111.9	ILS	13L
	ITGL	108.7	ILS	13R
	ITAG	108.7	ILS	31L
Gangneung	IKOG	111.5	ILS	26
Gimhae	IKHE	109.5	ILS	36L
	IKHG	108.5	ILS	18R
Gimpo	ISEL	109.9	ILS	14L
	IOFR	108.7	ILS	14R
	IKMO	108.3	ILS	32L
	ISKP	110.7	ILS	32R
Gunsan	KUZZ	110.3	ILS	18
	IKUZ	110.3	ILS	36
Gwangju	IMDG	111.1	ILS	04L
	IKWA	111.1	ILS	22R
Incheon	INCN	111.9	ILS	15L
	INCN	109.1	ILS	15R
	INCN	109.3	ILS	33L
	INCN	108.9	ILS	33R
Jungwon	ICHW	111.3	ILS	36R
	ICHW	111.3	ILS	18L
Muan	IMUN	111.9	ILS	01
	IMUN	108.9	ILS	19
Osan	ININ	111.3	ILS	09L
	IOSN	111.3	ILS	27R
Pohang	IKPO	110.9	ILS	28
Pyeongtaek	IPTK	108.75	ILS	32
Sacheon	ISAM	111.5	ILS	06L
	ISHA	108.1	ILS	24R
Seosan	ISAN	111.5	ILS	03R
	ISAN	110.1	ILS	21L
Seoul	ISUL	108.95	ILS	18
	ISOL	110.9	ILS	19
Sokcho	IYAN	111.0	ILS	26
Suwon	ISWN	108.5	ILS	33R
Wonju	IWNJ	110.2	ILS	03
Yangyang	IYAG	109.3	ILS	33
Yecheon	ICUN	109.3	ILS	28

Station Name	ID	freq	Type	RWY
1.2.3.2. Japan				
Hiroshima	HGN	108.8	ILS	10
Iwakuni MCAS	IJO	110.15	ILS	02
Iwami	IWA	108.7	ILS	11
Tsushima	VCE	108.7	ILS	32
Yamaguchi	UBE	110.1	ILS	07

Station Name	ID	freq	Type	RWY
1.2.3.3. North Korea				
Sunan	GE	109.9	ILS	18
	OW	110.3	ILS	34
	GT	109.5	ILS	36
Toksan	TK	109.6	ILS	05
	ITK	109.6	ILS	23
Uiju	IKU	110.0	ILS	05
	IKO	110.4	ILS	23

1.2.3.4. China

Nil

1.2.3.5. Russia

Nil



1.2.4 ATIS. VHF frequency

1.2.4.1 South Korea					
Airbase	ATIS	Airbase	ATIS	Airbase	ATIS
Cheongju	128.85	Incheon	128.45	Seoul	126.4
Jungwon	135.6	Jungwon	135.6	Sokcho	123.15
Daegu	127.65	Muan	127.425	Suwon	126.425
Gangneung	132.05	Osan	132.125	Wonju	128.6
Gimhae	126.65	Pohang	127.4	Yangyang	128.825
Gimpo	126.35	Pyeongtaek	128.25	Yecheon	135.8
Gunsan	120.225	Sachoen	126.625		
Gwangju	128.875	Seosan	130.3		
1.2.4.2 Japan			1.2.4.3 Russia		
Hiroshima	127.25	Tsushima	124.325	Uglovoye	124.05
Iwakuni	128.4	Yamaguchi	118.025		
Iwami	127.2				
1.2.4.4 North Korea					
Haeju	122.55	Kwail	125.3	Sondok	123.7
Hwangju	124.1	Manp'o	124.5	Sunan	124.8
Hwangsuwon	123.55	Mirim	123.45	Sunchon	123.1
Hyon-Ni	124.325	Onchon	125.2	T'aech'on	124.7
Iwon	125.4	Ongjin	124.625	Taetan	124.9
Kaech'on	123.85	Orang	123.2	Toksan	123.0
Koksan	124.4	Panghyon	125.1	Uiju	123.3
Kuum-Ni	124.2	Pukchang'Up	123.6		
Kalma	124.65	Samjiyon	125.0		
1.2.4.5 China					
Liuhe	123.9	Shenyang	127.45		



GEN 1.3 CONVERSION TABLES

1Nm = 6000ft

1 Sm = 1.609 Km – 1 Nm = 1.15 Sm – 1 Sm = 0.869 Nm

1° of Longitude (great circle) = 60 Nm

1 ft = 0.3048 m - 1 m = 3.28 ft

1° C = 33.8° F - 100° F = 37.8° C

GEN 1.4 SUNRISE - SUNSET

Sunrise and sunset in KTO will now depends on the DATE set in the Weather Control UI window. Adapting the date will specify the KTO sunrise and sunset times in zulu & local.

By default date is set to 2004/04/15 (15th April, 2004) with Sunrise at 21:01z (06:01LT) and Sunset at 10:10z (19:10 LT)

Aviation day begin 30' after Civilian Sunrise: 06:31LT by default

Aviation Night begin 30' after Civilian Sunset: 19:40LT by default

GEN 1.5 RADIO PRESETS TABLES

1.5.1 UFC default Presets (All presets are UHF unless otherwise specified!)

CH	UFC FREQ	7	Variable airbase	14	Advisory (Ui)
1	OPS (dep AB)	8	Variable airbase	15	VHF flight 1
2	Ground (dep AB)	9	Variable airbase	16	VHF flight 2
3	Tower (dep AB)	10	Variable airbase	17	VHF flight 3
4	Departure (dep AB)	11	Variable airbase	18	VHF flight 4
5	-	12	Variable airbase	19	VHF flight 5
6	Tactical (Awacs)	13	Air Refueling	20	-

1.5.2 Backup UHF

To communicate with ATC on Backup frequency use the manual frequency of the Backup UHF panel.



PART TWO: ENROUTE (ENR)

BMS 4.36 KOREAN THEATER OPERATION AERONAUTICAL INFORMATION PUBLICATION



ENR 2.1 ALTIMETER SETTING PROCEDURE

2.1.1. Introduction

The altimeter setting in KTO generally conforms to those contained in ICAO publications.

In KTO the transition altitude is 14000 feet and the transition level is FL 140.

QNH values may be given in hectopascals (hPa) or in inches of Mercury (inHg).

The transition altitude and the transition level are shown on the Instrument Approach Charts, Standard Instrument Departure (SID) charts and Standard Arrival Charts.

2.1.2 Altimeter setting procedure

Below the transition altitude vertical positioning is expressed as “altitude”.
Above the transition layer vertical positioning is expressed in Flight Levels (FL)

Aircraft altimeters shall be set to one of the following:

a. When below 14000 feet AMSL:

Use current reported altimeter setting by the nearest airfield. Along your route any tower frequency will be able to give the local altimeter setting. (in BMS all airbases towers and KOTAR frequency)

Please note that with the new weather model and the ability to create weather map the weather now evolves with area and time. Pressure settings may well be different from one place to another.

b. At or above 14000 feet AMSL:

Use the standard altimeter setting: 1013.2 hPa or 29.92 InHg.

Terminal

a. Departure:

The altimeter setting must be requested from the departure airport control tower.

b. Arrival:

The altimeter setting must be requested from the destination tower when descending through the transition layer.





ENR 2.2 PROHIBITED, RESTRICTED & DANGER AREAS

2.2.1. Definitions:

2.2.1.1. Danger Area: RK(D)

An airspace of defined dimensions within which activities dangerous to flight safety may exist at specified times.

The effect of the creation of the danger area is to caution operators or pilots that it is necessary for them to assess the danger in relation to their responsibility for the safety of their aircraft.

2.2.1.2. Prohibited Area: RK(P)

An airspace of defined dimensions above the land areas or territorial waters of a State, within which the flight of aircraft is prohibited.

2.2.1.3. Restricted Area: RK(R)

An airspace of defined dimensions above the land areas or territorial waters of a State, within which the flight of aircraft is restricted in accordance with certain specified conditions.

2.2.1.4. Military Operating Areas (MOA) & RK(M)

An airspace of defined dimensions within which firing of projectiles and missiles takes place and is coordinated in such a manner that air traffic operating through the airspace is not endangered. The ground firing stations ensure through appropriate surveillance systems that the area is used for firing only where there is no possibility of conflict with air traffic not participating in the range activities.

In order to facilitate range operations, all aircraft intending to operate through the range area during periods of activity shall make a position report with KOTAR radio.

2.2.2. Dissemination of information:

Each area is described in the following pages by its lateral and vertical limits, type of activity, times at which it applies and other pertinent information such as controlling agency. All times are Falcon times. Pilots transiting through the airspace should contact the UHF frequency listed in the remarks.



2.2.3 South Korea

Name and lateral limits	Upper Limit	Remarks
	Lower Limit	
RK(R)-14 PYEONGDONG		
2 Nm West of Gwangju Airbase (RKJJ)	By NOTAM	Ground to Ground hi angle firing RKJJ tower 254.6
RK(R)-17 YEOJU		
A 7.5Nm Radius circle centred on: N37°21.828' E128°43.410'	FL150	Air to ground firing ROKAF Seoul Twr: 237.1
	GND	
RK(R)-73 A&B SEOUL CITY		
A 5Nm Radius circle centred on: N37°34.271' E127°56.289'	UNL	Aircraft Violating RK R73A&B without proper clearance will be shot down. An exception to this rule will be aircraft identified as friendly
	GND	
RK(R)-74 DONG-HAE-NAM-BU		
N37°02.075' E131°36.973' - N36°53.490' E131°58.470' N36°06.524' E131°53.188' - N36°04.517' E131°51.584' N36°06.493' 131°30.974'	500	Air to Surface sea skimming missiles firing
	SFC	
RK(R)-79 A & C KOON-NI		
A 5Nm Radius circle centred on: N37°02.030' E127°37.631'	FL200	Koon-Ni Live firing range (ROKAF) Not implemented in BMS
	GND	
RK(R)-79 KOON-NI		
N37°01.996' E127°31.190' - N37°01.996' E127°44.034' N36°40.899' E127°42.730' - N36°40.899' E127°29.945'	FL200	Koon-Ni Live firing range (ROKAF) Not implemented in BMS
	GND	
RK(R)-80 SEO-HAE-JUNG-BU		
N36°32.340' E125°13.594' - N36°32.340' E126°20.752' N35°55.100' E126°19.240' - N35°55.100' E125°12.324'	FL400	Air to Air Firing ROKAF By NOTAM
	SFC	
RK(R)-81 NAKJEONG		
A 7.5Nm Radius circle centred on: N36°27.301' E129°29.929' and cut by a line joining N36°28.189' E129°21.281' and N36°20.685' E126°33.179'	FL200	Air to ground firing ROKAF 2100to1400Zulu
	GND	
RK(R)-88 SEO-HAE-BUK-BU		
N37°18.406' E125°15.231' - N37°18.406' E126°17.950' N36°43.163' E126°16.555' - N36°43.163' E125°14.336'	FL400	Air to Air Firing ROKAF By NOTAM
	SFC	



RK(R)-89 OCHON		
3Nm South West of Pohang Airbase (RKTH) See Pohang charts	1000	Ground to Ground Firing ROKMC 1st DIV
	GND	
RK(R)-90A SUSONG-A		
6Nm South East of Pohang Airbase (RKTH) See Pohang charts	2000	Ground to Ground Firing ROKMC 1st DIV
	GND	
RK(R)-100 NAMHYONGJEDO		
A 2 Nm Radius circle centred on: N35°03.388' E130°16.396'	500	Surface to Surface ROK Fleet
	SFC	
RK(R)-105 JIKDO RANGE		
A 5.5 Nm Radius circle centred on: N35°53.861' E126°38.838'	FL250	Air to Ground firing ROKAF RKSO tower. Activated by NOTAM
	SFC	
RK(R)-107 DONG-HAE-BUK-BU		
N38°18.584' E131°25.612' - N38°18.584' E131°57.166' N37°36.296' E131°52.321' - N37°45.328' E131°22.050'	FL400	Air to Air Firing RKNN Tower 334.9
	SFC	
RK(R)-110 PILSUNG (KOTAR)		
N37°13.330' E130°06.460' - N37°13.330' E130°29.305' N36°54.922' E130°27.375' - N36°55.015' E130°04.747'	FL250	Korean Tactical Range (KOTAR) Air to Ground live firing USAF & ROKAF 233.8
	GND	
RK(R)-111 UNGCHON		
A 2 Nm Radius circle North of Gunsan AB RKJK (See Gunsan charts)	FL250	Air to Surface firing - RKJK tower 292.3
	GND	
RK(R)-131 BAENGNYEONG		
N38°00.000' E124°04.209' - N38°00.000' E124°52.028' N37°50.300' E124°51.863' - N37°50.300' E124°04.071'	5000'	Surface to Surface hi angle firing By NOTAM
	SFC	
RK(R)-134 YEONPYONGDO		
N38°03.562' E125°00.000' - N38°03.562' E125°15.834' N37°42.103' E125°47.697' - N37°42.103' E126°12.567' N37°53.664' E126°23.513' - N37°53,664' E126°27.346' N37°38.741' E126°26.600' - N37°38.703' E125°00.000'	5000'	Surface to Surface hi angle firing By NOTAM
	SFC	
RK(R)-518		
The area between the Demarcation line and a parallel line extending 10 Nm South of the demarcation line.	UNL	Demilitarized Zone
	GND	



2.2.4 Japan

Name and lateral limits	Upper Limit	Remarks
	Lower Limit	
RJ(R)-134		
N34°51.492' E131°38.921' - N34°45.440' E132°00.000'	FL400	JASDF Air to Air training. 60Nm West Iwami: 225.5
N34°06.912' E131°38.696' - N34°16.467' E131°18.246'	10000'	

2.2.5 North Korea

Name and lateral limits	Upper Limit	Remarks
	Lower Limit	
ZK(P)-01		
N39°16.013' E126°25.566' - N39°08.822' E126°28.307' N39°06.936' E126°18.235' - N39°01.041' E126°13.913' N38°54.990' E126°19.144' - N38°51.296' E126°32.696' N38°56.444' E126°50.738' - N39°10.237' E126°52.858' N39°16.013' E126°45.768'	UNL GND	P'Yong'Yang Prohibited airspace Sunan tower: 264.0
ZK(D)-01		
N39°21.131' E126°17.168' - N39°10.705' E126°09.336' N38°47.852' E126°09.095' - N38°39.405' E126°33.641' N38°43.251' E127°00.000' - N39°18.450' E127°00.000' N39°28.628' E126°44.259' - N39°28.431' E126°28.670' N39°16.013' E126°25.566' - N39°08.822' E126°28.307' N39°06.936' E126°18.235'	FL400 10000'	Danger Airspace around P'Yong'Yang. Sunan tower: 264.0
ZK(R)-01		
N40°09.937' E128°00.000' - N39°48.659' E128°07.388' N39°57.361' E128°27.686' - N40°09.986' E128°20.556'	UNL GND	Strategic corps training area: Sondok tower: 343.8
ZK(D)-02		
N39°26.292' E125°46.428' - N39°07.053' E125°56.257' N38°58.267' E125°36.850'	2500' SFC	Surface to Surface firing. Onch'on tower: 302.4
ZK(R)-02		
N40°19.077' E129°55.100' - N40°00.000' E129°43.906' N40°00.000' E130°09.347' - N40°11.188' E130°14.301'	3000' SFC	DPRK Navy - Iwon tower: 234.4
ZK(D)-03		
N39°23.805' E128°33.805' - N39°18.762' E128°27.621' N39°10.875' E128°29.991' - N39°10.648' E128°37.555' N39°15.462' E128°44.895'	8000' GND	Surface to Surface firing: Kalma tower: 244.4



Name and lateral limits	Upper Limit	Remarks
	Lower Limit	
ZK(R)-03		
N39°50.249' E125°14.491' - N39°27.087' E125°10.725'	5000'	Surface to Surface firing. Panghyon tower: 270.8
N39°29.143' E125°17.537' - N39°51.757' E125°25.878'	SFC	
ZK(P)-03		
N40°21.522' E127°00.000' - N40°14.733' E127°00.000'	FL400	Huich'on industrial Complex. Keachon tower: 350.0
N40°05.757' E127°18.615' - N40°05.729' E127°28.342'	GND	
N40°13.966' E127°33.424'		
ZK(R)-04		
N39°44.904' E125°23.587' - N39°31.365' E125°46.107'	6000'	Surface to Surface firing. Panghyon tower: 270.8
N39°31.365' E125°55.445' - N39°37.280' E125°52.029'	SFC	
ZK(D)-05		
N40°24.385' E125°59.867' - N40°01.687' E126°19.407'	14000'	Unsan Radar guidance tests. T'aech'on tower: 275.5
N40°03.671' E126°29.937' - N40°14.706' E126°19.727'	GND	
ZK(D)-07		
N39°55.939' E128°56.223' - N39°43.090' E129°01.559'	FL400	Hamhung & Toejo industrial complex: Toksan tower: 324.8
N39°54.263' E129°33.166' - N40°05.504' E129°40.482'	SFC	
N40°07.150' E129°25.163'		

2.2.6 China

Nil

2.2.7 Russia

Nil





ENR 2.3 MILITARY OPERATION AREA (MOA)

2.3.1 South Korea

Name and lateral limits	Upper Limit	Remarks
	Lower Limit	
MOA 1 (YELLOW)		
N36°44.992' E126°25.363' - N36°44.992' E127°23.447' N36°38.887' E127°27.063' -N36°29.042' E127°26.556' N36°23.058' E127°22.018' - N36°23.251' E127°05.844' N36°18.425' E126°55.050' - N36°18.425' E126°23.969'	FL400 10.000 ft MSL	43 Nm W RKTP Seosan Twr : 353.1
MOA 2		
N36°38.517' E128°18.916' - N36°38.517' E128°18.916' N36°01.172' E127°59.970' - N36°00.537' E128°16.315'	FL400 10.000 ft MSL	56 Nm NE RKJK Cheongju Twr : 250.2
MOA 3		
N36°20.284' E128°32.921' - N36°24.427' E128°50.858' N36°00.537' E128°16.315' - N35°57.819' E129°31.382'	FL400 10.000 ft MSL	28 Nm S RKTU Cheongju Twr : 250.2
MOA 5		
N37°29.876' E129°19.796' - N37°37.094' E129°54.990' N37°07.354' E129°17.905' - N37°11.733' E129°52.679'	FL400 12.000 ft MSL	29 Nm NNE RKTY Jungwon Twr : 230.15
MOA 6		
N37°37.094' E129°54.990' - N37°38.365' E130°02.324' N37°24.533' E130°36.682' - N37°13.215' E130°29.139' N37°11.733' E129°52.679'	FL400 10.000 ft MSL	28 Nm SW RKNN Gangneung Twr : 334.9
MOA 7		
N38°19.982' E130°33.951' - N38°19.982 E131°20.748' N37°54.920' E130°31.336' - N37°54.920' E131°17.868'	FL400 10.000 ft MSL	31 Nm NNE RKNN US Gangneung Twr : 334.9
MOA 8		
N37°13.215' E130°29.139' - N37°24.533' E130°36.682' N37°01.964' E131°37.172' - N36°47.073' E131°35.410' N36°47.139' E130°41.040' - N36°55.015 E130°27.347'	FL400 11.000 ft MSL	35 NM S RKNN Pohang Twr : 236.6
MOA 9		
N36°47.139' E130°41.040' - N36°47.073' E131°35.410' N36°29.053' E131°33.266' - N36°29.183 E130°39.127'	FL400 11.000 ft MSL	62 Nm SSE RKNN Pohang Twr : 236.6
MOA 10		
N36°41.862' E129°51.305' - N36°55.019' E130°04.786' N36°55.015 E130°27.347' - N36°23.183 E130°39.127' N36°29.183 E130°39.127' - N36°21.583' E130°33.008'	FL400 10.000 ft MSL	10 Nm E RKTY Yecheon Twr : 269.5



MOA 11		
N37°07.285' E129°17.921' - N37°13.366' E130°06.295' N36°54.951' E130°04.573' - N36°41.805' E129°51.147' N36°55.957' E129°22.144'	FL400 12.000 ft MSL	11,5 Nm ESE RKTY Yecheon Twr : 269.5
MOA 12		
N36°29.183 E130°39.127' - N36°29.053' E131°33.266' N36°06.480' E131°30.807' - N36°09.312 E130°58.156' N36°21.583' E130°33.008'	FL400 11.000 ft MSL	23 Nm NW RKTH Pohang Twr : 236.6
MOA 13 EAST		
N35°52.012' E131°00.421' - N35°49.330' E131°35.754' N35°27.403' E131°19.509' - N35°22.750' E130°46.043'	FL400 10.000 ft MSL	38 Nm E RKTN Pohang Twr : 236.6
MOA 13 WEST		
N35°48.183' E130°11.697' - N35°53.336' E130°32.088' N35°53.875' E130°55.284' - N35°52.012' E131°00.421' N35°22.750' E130°46.043' - N35°21.356' E130°36.928'	FL400 11.000 ft MSL	12 Nm ESE RKTN Pohang Twr : 236.6
MOA 14		
N36°17.338' E129°34.365' - N36°30.117' E129°44.274' N36°07.155' E130°27.150' - N36°02.249' E129°57.525'	FL330 10.000 ft MSL	27 Nm NW RKTN Daegu Twr : 365.0
MOA 15		
N35°52.056' E127°59.509' - N35°48.487' E129°16.243' N35°29.211' E128°00.000'	FL400 11.000 ft MSL	21 Nm E RKJJ Gwangju Twr : 254.6
MOA 17		
N36°18.425' E126°23.969' - N36°18.025' E127°25.854' N36°00.000' E127°15.642' - N35°43.329' E127°15.976' N35°43.334' E126°22.654'	FL400 5.000 ft MSL	53 Nm WNW RKJK Gunsan Twr : 292.3
MOA 18		
N35°51.128' E125°12.438' - N35°51.187' E126°118.916' N35°04.566' E126°17.003' - N35°04.625' E125°11.096'	FL400 5.000 ft MSL	107 Nm W RKJK US NAVY Gunsan Twr : 292.3
MOA 19		
N35°43.334' E126°22.654' - N35°43.329' E127°15.976' N35°21.160' E127°16.923' - N35°21.264' E126°21.725'	FL400 10.000 ft MSL	51 Nm W RKJK Gunsan Twr : 292.3
MOA 20		
N35°21.264' E126°21.725' - N35°21.160' E127°16.923' N34°52.666' E127°16.394' - N34°52.655' E126°20.704'	FL400 10.000 ft MSL	65 Nm WNW RKJJ Gwangju Twr : 254.6



MOA 21		
N34°52.655' E126°20.704' - N34°52.666' E127°16.394'	FL400	67 Nm WSW RKJJ Gwangju Twr : 254.6
N34°27.309' E127°12.363' - N34°27.399' E126°19.705'	10.000 ft MSL	
MOA 22		
N35°01.342' E125°14.988' - N35°01.342' E126°21.031'	FL400	118 Nm SW RKJJ Gwangju Twr : 254.6
N34°27.571' E126°19.665' - N34°27.597' E125°14.166'	5.000 ft MSL	
MOA 23 (BLUE)		
N34°27.647' E125°14.119' - N34°27.571' E126°19.689'	FL400	126 Nm SW RKJJ Gwangju Twr : 254.6
N34°07.988' E126°18.794' - N34°07.988' E125°13.601'	5.000 ft MSL	
MOA 24 (BLUE)		
N34°27.399' E126°19.705' - N34°27.309' E127°12.363'	FL400	78 Nm SW RKJJ Gwangju Twr : 254.6
N34°07.966' E127°09.551' - N34°07.988' E126°18.794'	10.000 ft MSL	
MOA 25		
N35°03.163' E127°45.394' - N35°03.163' E128°14.786'	FL400	15 Nm S RKJJ Gwangju Twr : 254.6
N34°20.414' E128°12.046' - N34°12.666' E127°55.540'	10.000 ft MSL	
N34°12.736' E127°35.824'		
MOA 26		
N35°03.163' E128°14.786' - N35°03.036' E129°30.688'	FL400	32 Nm SE RKJJ Gwangju Twr : 254.6
N34°56.030' E129°30.153' - N34°20.414' E128°12.046'	10.000 ft MSL	
MOA 27		
N35°18.391' E128°06.493' - N35°42.941' E129°33.878'	FL400	33 Nm NEE RKPS Sacheon Twr : 305.4
N35°18.373' E129°31.789'	11.000 ft MSL	
MOA 28		
N34°15.772' E129°00.000' - N34°47.972' E130°00.000'	FL400	50 Nm S RKPS Sacheon Twr : 305.4
N34°35.942' E130°00.000' - N33°57.834' E129°00.000'	200 ft MSL	
MOA 29		
N33°50.640' E128°13.750' - N34°15.772' E129°00.000'	FL400	72 Nm S RKPS Sacheon Twr : 305.4
N33°57.834' E129°00.000' - N33°50.587' E128°48.234'	3000 ft MSL	
MOA 30		
N38°05.807' E129°02.893' - N38°07.037' E129°29.571'	FL400	67Nm NNW RKNN Gangneung Twr : 334.9
N37°46.252' E129°27.583' - N37°42.070' E129°00.558'	10.000 ft MSL	
MOA 31		
N38°07.037' E129°29.571' - N38°08.390' E129°59.012'	FL400	67Nm NNE RKNN Gangneung Twr : 334.9
N37°50.495' E129°57.079' - N37°46.252' E129°27.583'	10.000 ft MSL	
MOA 32		
N37°40.639' E131°03.573' - N37°40.639' E132°00.000'	FL400	32Nm ESE RKNN Gangneung Twr : 334.9
N37°13.967' E132°00.000' - N37°35.308' E131°06.066'	10.000 ft MSL	



MOA 33		
N37°40.639' E132°00.000' - N37°40.639' E132°42.117' N37°31.495' E132°52.513' - N37°01.626' E132°30.013' N37°13,967' E132°00.000'	FL400 10.000 ft MSL	75Nm ESE RKNN Gangneung Twr : 334.9
ACMI ALPHA		
N37°21.606' E129°17.922' - N37°27.170' E126°48.480' N37°21.655' E127°20.132' - N36°45.092' E127°18.108' N36°45.092' E126°16.504'	5.000 MSL SFC	80 Nm W RKSX ACM Maneuvering. Suwon Twr : 366.0
ACMI BRAVO		
N37°21.606' E129°17.922' - N37°27.170' E126°48.480' N37°21.655' E127°20.132' - N36°45.092' E127°18.108' N36°45.092' E126°16.504'	9.000 MSL 6.000 MSL	80 Nm W RKSX ACM Maneuvering Suwon Twr : 366.0
ACMI CHARLIE		
N37°21.606' E129°17.922' - N37°27.170' E126°48.480' N37°21.655' E127°20.132' - N36°45.092' E127°18.108' N36°45.092' E126°16.504'	FL600 10.000 MSL	80 Nm W RKSX ACM Maneuvering Suwon Twr : 366.0
DOKDO		
N36°46.407' E131°38.404' - N36°46.407' E131°49.155' N36°03.465' E131°44.581' - N36°03.500 E131°33.842'	2.000 AGL 500 AGL	Air Refueling / Preset #13 ACT by NOTAM
MALLIPO		
N36°20.310' E125°31.372' - N36°20.099' E126°00.000' N35°48.314' E126°00.000' - N35°48.173 E125°31.733'	FL250 FL140	Air Refueling / Preset #13 ACT by NOTAM
ULLEUNGDO		
N36°54.461' E131°37.988' - N36°47.677' E131°55.820' N36°11.276' E131°51.996' - N36°16.405' E131°33.544'	FL250 FL140	Air Refueling USAF / #13 ACT by NOTAM
WIDO		
N35°16.924' E125°28.812' - N35°11.685' E125°59.890' N34°33.259' E125°59.589' - N34°37.911' E125°29.523'	FL250 FL140	Air Refueling USAF / #13 ACT by NOTAM
KOREA AIR DEFENSE IDENTIFICATION ZONE		
Korea ADIZ (KADIZ) N38°45.123' E123°39.840' - N40°28.524' E132°55.900' N37°38.570' E133°16.529' - N37°25.180' E132°51.954' N35°21.522' E131°20.848' - N33°50.621 E128°58.943' N33°50.403' E124°39.018' - N35°52.098' E124°41.073'	UNL SFC	Guard UHF 243.0 VHF 121.5



2.3.2 Japan

Name and lateral limits	Upper Limit	Remarks
	Lower Limit	
RJ(T)- AREA N1		
N35°02.390' E130°50.266' - N35°02.040' E131°01.122'	FL400	JASDF Air to Air firing 100Nm West of Iwami: 225.5
N34°58.762' E131°13.228' - N34°38.088' E131°00.175'	10000'	
N34°56.664' E130°41.346'		
RJ(M) FIRING4		
N34°58.762' E131°13.228' - N34°51.492' E131°38.921'	FL400	JASDF Air to Air firing 80Nm West of Iwami: 225.5
N34°16.467' E131°18.246' - N34°25.020' E131°00.000'	10000'	
N34°38.088' E131°00.175'		
RJ(T)- AREA N21		
N35°51.038' E131°41.725' - N35°47.454' E132°09.353'	FL400	JASDF Air to Air training. 40Nm North Iwami: 225.5
N35°09.952' E132°22.581' - N35°09.952' E131°02.171'	10000'	
N35°21.360' E131°20.128'		
RJ(T)- AREA N22		
N35°47.454' E132°09.353' - N35°36.040' E133°41.086'	FL400	JASDF Air to Air training. 75Nm North West of Iwami: 225.5
N35°26.668' E133°48.483' - N35°04.376' E132°41.251'	10000'	
N35°09.952' E132°22.581'		

2.3.3 North Korea

Nil

2.3.4 China

Nil

2.3.2 Russia

Nil

Note:

Each MOA is controlled by a nearby airbase tower agency.
Use the frequency as UNICOM to self-announce your flight in the relevant area
with your training time slot and purposes.
Maintain a listening watch on the listed frequency during area occupancy.
Regional/local pressure settings are available as well.

PART THREE: AERODROMES (AD)

BMS 4.36 KOREAN THEATER OPERATION AERONAUTICAL INFORMATION PUBLICATION

AD 3.1 INDEX OF AIRPORTS

3.1.1. SOUTH KOREA AIRBASES

Airport		ATC			TCN	Rwy	ILS (RWY)	Elev (ft)	BMS GPS coord
ICAO	Name	GND	TWR	APP					
RKTU	Cheongju	275.8	250.2	292.9	042X	06L/24R 06R/24L	111.7 (24R) 111.9 (13L) 108.7 (13R) 108.7 (31L)	187	N36°48.100' E128°36.314'
RKTN	Daegu	275.8	365.0	346.3	125X	13L/31R 13R/31L		353	N35°57.916' E129°55.548'
RKNN	Gangneung	275.8	334.9	304.0	056X	08/26	111.5 (26)	35	N37°46.733 E130°30.560'
RKPK	Gimhae	274.8	233.3	225.1	117X	18L/36R 18R/36L	108.5 (18R) 109.5 (36L)	39	N35°13.558' E130°12.398'
RKSS	Gimpo	236.7	240.9	363.8	083X	14L/32R 14R/32L	109.9 (14L) 108.7 (14R) 108.3 (32L) 110.7 (32R)	96	N37°36.868' E127°42.801'
RKJK	Gunsan	273.525	292.3	292.65	075X	18/36	110.3 (18) 110.3 (36)	10	N35°57.554' E127°24.492'
RKJJ	Gwangju	275.8	254.6	268.0	091X	04L/22R 04R/22L	111.1 (04L&22R)	110	N35°13.065' E127°39.682'
RKSI	Incheon	266.925	231.8	293.225	085X	15L/33R 15R/33L	111.9 (15L) 109.1 (15R) 109.3 (33L) 108.9 (33R)	10	N37°32.897' E127°23.360'
RKTY	Jungwon	275.9	230.15	306.7	005X	18L/36R 18R/36L	111.3 (18L) 111.3 (36R)	642	N36°59.793' E129°09.781'
RKJB	Muan	231.7	228.25	240.0	065X	01/19	111.9 (01) 108.9 (19)	44	N35°02.019' E127°09.083'
RKSO	Osan	253.7	308.8	306.3	094X	09L/27R 09R/27L	111.3 (09L&27R)	97	N37°04.141' E128°00.881'
RKTH	Pohang	275.4	236.6	232.4	072X	10/28	110.9 (28)	37	N36°02.779' E130°48.826'
RKSG	Pyeongtaek	229.7	257.8	363.1	019X	14/32	108.75 (32)	102	N36°57.931' E128°03.884'
RKPS	Sacheon	275.8	305.4	317.425	037X	06L/24R 06R/24L	111.5 (06L) 108.1(24R)	20	N35°08.528' E129°08.760'
RKTP	Seosan	275.8	353.1	253.95	052X	03L/21R 03R/21L	111.5 (03R) 110.1 (21L)	26	N36°41.807' E127°19.884'
RKSM	Seoul	276.2	237.1	363.9	046X	19/01 18/36	108.95 (18) 110.9 (19)	258	N37°27.586' E128°07.474'
RKND	Sokcho	240.4	236.6	304.4	059X	08/26	111.0 (26)	77	N38°06.185' E130°07.622'
RKSW	Suwon	275.7	366.0	306.4	022X	15L/33R 15R/33L 16/34	108.5 (32L)	167	N37°16.422' E127°57.495'



Airport		ATC			TCN	Rwy	ILS (RWY)	Elev (ft)	BMS GPS coord
ICAO	Name	GND	TWR	APP					
RKNW	Wonju	277.8	265.5	292.6	039X	03/21	110.2 (03)	580	N37°27.477' E129°13.341'
RKNY	Yangyang	280.125	240.35	241.6	043X	15/33	109.3 (33)	230	N38°04.150' E130°12.231'
RKTY	Yecheon	234.5	269.5	229.35	026X	10/28	109.3 (26)	486	N36°41.667' E129°40.094'





3.1.2. SOUTH KOREA AIRSTRIPS

Airstrip	Twr (UHF/VHF)	RWY	Elev (ft)	Localisation	Latitude	Longitude
Chongwon	233.8/122.8	18/36	368	R180° 042X Dme11	N36°37.265'	E128°35.318'
Chunchon	233.8/122.8	18/36	383	R040° 094X Dme66	N37°53.781'	E128°56.751'
Kumi	236.6/122.6	09/27	254	R195° 026X Dme30	N36°12.633'	E129°28.087'
R103	236.6/122.6	09/27	135	R200° 083X Dme07	N37°28.610'	E127°39.140'
R107	233.8/122.8	18/36	136	R325° 094X Dme51	N37°46.237'	E127°28.889'
R110	233.8/122.8	18/36	68	R245° 019X Dme21	N36°49.119'	E127°39.642'
R113	236.6/122.6	09/27	171	R030° 083X Dme10	N37°43.159'	E127°49.588'
R217	233.8/122.8	18/36	455	R010° 094X Dme56	N37°58.092'	E128°18.822'
R218	233.8/122.8	18/36	236	R360° 094X Dme61	N38°03.480'	E128°04.842'
R222	233.8/122.8	18/36	360	R045° 083X Dme25	N37°52.703'	E128°06.146'
R419	233.8/122.8	18/36	1063	R360° 005X Dme43	N37°41.926'	E129°12.823'
R505	233.8/122.8	18/36	130	R230° 042X Dme17	N36°37.265'	E128°19.205'
R601	236.6/122.6	09/27	666	R195° 026X Dme30	N36°41.731'	E129°25.817'
R605	233.8/122.8	18/36	920	R055° 005X Dme21	N37°10.673'	E129°31.878'
Singal	233.8/122.8	18/36	363	R190° 046X Dme08	N37°19.295'	E128°07.928'
Songwhan	233.8/122.8	18/36	191	R125° 019X Dme06	N36°54.508'	E128°09.622'
Yongju	233.8/122.8	18/36	589	R050° 026X Dme15	N36°51.275'	E129°55.131'

3.1.3. JAPAN

Airport		ATC			TCN	Rwy	ILS (RWY)	Elev (ft)	BMS GPS coord
ICAO	Name	GND	TWR	APP					
RJOA	Hiroshima	299.3	357.65	392.625	24X	10/28	108.8 (10)	1070	N34°23.223' E133°53.935'
RJOI	Iwakuni MCAS	321.3	299.75	331.4	126X	02/20	110.15(02)	10	N34°09.212' E133°28.029'
RJFF	Iwami	236.8	225.5	279.2	057X	11/29	108.7(11)	106	N34°38.533' E132°56.161'
RJDT	Tsushima	239.9	231.9	240.125	064X	14/32	108.7(32)	160	N34°19.451' E130°35.095'
RJDC	Yamaguchi	265.8	260.2	323.75	045X	07/25	110.1(07)	15	N33°55.203' E132°29.160'

3.1.4. NORTH KOREA AIRBASES

Airport		ATC			TCN	Rwy	ILS	Elev	BMS GPS coord
ICAO	Name	GND	TWR	APP					
KP-0002	Haeju	282.6	280.4	278.6	R085° 58X Dme28	12/30		113	N38°02.223' E126°36.807'
KP-0020	Hwangju	338.4	337.6	335.2	R190° 59X Dme22	12/30		231	N38°42.959' E126°32.227'
KP-0035	Hwangsuwon	312.6	368.5	344.3	R190° 50X Dme73	12/30		3991	N40°43.756' E129°50.507'
KP-0019	Hyon-Ni	241.9	240.9	230.5	R188° 54X Dme33	02/20		2598	N38°41.300' E128°37.565'
KP-0059	Iwon	240.6	234.4	228.9	R170° 50X Dme94	08/26		470	N40°24.718' E130°26.856'
KP-0018	Kaech'on	333.1	350.0	340.8	R025° 51X Dme35	03/21		204	N39°47.400' E126°42.427'
KP-0015	Koksan	320.2	318.2	319.2	R245° 54X Dme60	05L/23R 05R/23L		1058	N38°48.157' E127°32.883'
KP-0013	Kuum-ni	350.2	388.7	380.6	R125° 54X Dme32	05L/23R 05R/23L		198	N38°54.190' E129°17.199'
KP-0039	Kwail	350.0	349.4	349.6	R220° 51X Dme64	14/32		274	N38°26.721' E125°29.149'
KP-0053	Manp'o	262.65	242.4	262.4	R060° 55X Dme124	01/19		1392	N41°11.801' E127°27.140'
KP-0011	Mirim	225.1	225.3	225.2	59x	08/26		127	N39°03.544' E126°39.615'
KP-0023	Onch'on	300.6	302.4	301.7	R235° 51X Dme34	02L/20R 02R/20L		13	N38°57.412' E125°45.757'
KP-0050	Ongjin	322.5	368.1	364.2	58x	11/29		248	N37°59.158' E126°01.761'
KP-0032	Orang	263.1	264.0	244.3	R110° 50X Dme80	03/21		151	N41°27.626' E131°48.613'
KP-0030	Panghyon	271.6	270.8	268.6	R115° 55X Dme42	02L/20R 02R/20L		362	N39°58.840' E125°51.027'
KP-0022	Pukch'ang-up	265.5	264.9	265.1	R035° 51X Dme28	14/32		288	N39°37.849' E126°44.436'
KP-0029	Samjiyon	298.1	299.1	300.25	50x	05L/23R 05R/23L		4478	N41°55.243' E130°13.612'
KP-0008	Sondok	340.3	343.8	342.6	R360° 54X Dme35	02/20		32	N39°47.577' E128°47.130'

Airport		ATC			TCN	Rwy	ILS (RWY)	Elev	BMS GPS coord
ICAO	Name	GND	TWR	APP					
ZKPY	Sunan	262.5	264.0	265.0	51x	18/36 16/34	109.9(18) 110.3(34) 109.5(36)	174	N39°14.713' E126°21.631'
ZKSC	Sunchon	256.2	253.1	254.8	R055° 51X Dme19	16L/34R 16R/34L		228	N39°26.670' E126°42.318'
KP-0006	T'aech'on	260.4	275.5	268.9	R345° 51X Dme43	12/30		213	N39°57.415' E126°10.724'
KP-0005	Taetan	209.3	288.7	284.7	R320° 58X Dme12	08/26		174	N38°08.607' E125°51.628'
ZKTS/ KP-0025	Toksan	340.7	324.8	331.6	53x	05/23	109.6(05) 109.6(23)	447	N40°03.018' E128°58.862'
ZKUJ / KP-0004	Uiju	370.6	372.0	372.55	55x	05/23	110.4(05) 110.0(23)	120	N40°14.825' E125°01.100'
ZKWS	Kalma	240.65	244.4	264.4	54x	01/19 15/33		14	N39°13.084' E128°45.577'



3.1.6. NORTH KOREA AIRSTRIPS

Airstrip	Code	Twf (UHF/VHF)	RWY	Elev (ft)	Localisation	Latitude	Longitude
Ayang-Ni	KP-0037	233.7/127.7	09/27	370	R160° 051X Dme62	N38°18.184'	E126°43.238'
Hoeyang SE	KP-0061	233.7/127.7	09/27	1695	R227°054X Dme55	N38°47.282'	E128°54.712'
Ich'on	KP-0034	233.7/127.7	09/27	1084	R120° 051X Dme83	N38°36.505'	E127°51.762'
Kaech'on SW		231.4/123.4	18/36	516	R015° 051X Dme37	N39°51.249'	E126°37.207'
Kilchu	KP-0016	231.4/123.4	18/36	448	R135° 050X Dme79	N40°59.144'	E131°18.570'
Kojo	KP-0057	233.7/127.7	09/27	616	R135° 054X Dme31	N38°52.132'	E129°11.725'
Koksan	KP-0014	231.4/123.4	18/36	1064	R115° 051X Dme65	N38°47.665'	E127°35.473'
Kwaksan	KP-0012	233.7/127.7	09/27	301	R315° 051X Dme41	N39°43.861'	E125°44.733'
Kyongsong Chuul	KP-0055	231.4/123.4	18/36	173	R105° 050X Dme77	N41°35.786'	E131°48.478'
Nuch'on-Ni	KP-0052	233.7/127.7	09/27	180	R147° 051X Dme71	N38°16.568'	E127°07.865'
Okpyong-Ni	KP-0051	233.7/127.7	09/27	174	R295° 054X Dme12	N39°19.613'	E128°30.958'
Panghyon	KP-0031	233.7/127.7	09/27	463	R120° 055X Dme40	N39°56.254'	E125°46.633'
Pongsan		233.7/127.7	09/27	188	R167° 051X Dme45	N38°32.194'	E126°32.937'
Sangwon	KP-0028	233.7/127.7	09/27	326	R140° 059X Dme14	N38°53.209'	E126°50.598'
Sonch'on	KP-0045	233.7/127.7	09/27	281	R150° 055X Dme32	N39°47.633'	E125°19.635'
Sugam-Ni	KP-0044	233.7/127.7	09/27	110	R095° 050X Dme79	N41°46.179'	E131°56.882'
Taebukpo-Ri	KP-0007	233.7/127.7	09/27	458	R130° 051X Dme88	N38°21.417'	E127°46.622'
Tangch'on		233.7/127.7	09/27	196	R165° 050X Dme95	N40°25.352'	E130°36.617'
Yonghung	KP-0040	233.7/127.7	09/27	22	R330° 054X Dme23	N39°33.084'	E128°33.424'



3.1.7. CHINA

Airport		ATC			TCN	Rwy	ILS	Elev	BMS GPS coord
ICAO	Name	GND	TWR	APP					
ZYLH	Liuhe	380.6	390.8	380.8	R080° 088X Dme112	01/19		1555	N42°09.997' E126°05.412'
ZYTX	Shenyang	317.5	395.5	393.6	088x	05L/23R 05R/23L		254	N41°55.587' E123°37.946'

3.1.8. RUSSIA

Airport		ATC			TCN	Runway	ILS (RWY)	Elev	BMS GPS coord
ICAO	Name	GND	TWR	APP					
UUNA	Uglovoye	392.5	398.8	392.7		14/32		600	N42°59.916' E134°00.718'



AD 3.2 AIRPORT APPROACH CHARTS

See BMS DOC folder

" Docs/03 KTO Charts/"