

# ENR 5.2 MILITARY EXERCISE AND TRAINING AREAS AND AIR DEFENCE IDENTIFICATION ZONE(ADIZ)

## 1. MILITARY OPERATION AREA(MOA)

Name and lateral limits	Upper limit Lower limit	Remarks
1	2	3
<b>MOA 1</b> 363500N 1253600E - 363500N 1254200E - 364400N 1261000E - 364400N 1262900E - 362000N 1262500E - 361959N 1253602E - to the beginning	FL 400 10 000 ft AMSL	
<b>MOA 2H</b> 363500N 1270700E-363500N 1272200E - 362959N 1273007E-355800N 1272200E - 355900N 1270400E-360836N 1270448E - 362302N 1270625E-362637N 1270618E - to the beginning	FL 400 10 000 ft AMSL	
<b>MOA 2L</b> 363500N 1270700E-363500N 1272200E - 355800N 1272200E-355900N 1270400E - to the beginning	9 000 ft AMSL 3 000 ft AGL	
<b>MOA 3A</b> 363400N 1273200E - 363500N 1274300E - 362300N 1275700E - 361800N 1275100E - 362700N 1273700E - 363400N 1273200E	7 000 ft AMSL 3 000 ft AGL	
<b>MOA 3L</b> 361600N 1272200E - 362200N 1274300E - 355600N 1281500E - 355800N 1272200E - to the beginning	9 000 ft AMSL 3 000 ft AGL	
<b>MOA 3H</b> 362959N 1273007E - 362200N 1274300E - 355600N 1281500E - 355800N 1272200E - to the beginning	FL 400 10 000 ft AMSL	
<b>MOA 4</b> 364500N 1274000E - 365100N 1274600E - 363500N 1281400E - 362700N 1280500E - 364500N 1274000E	9 000 ft AMSL 3 000 ft AGL	
<b>MOA 5</b> 372700N 1275800E - 373200N 1283100E - 371200N 1283100E - 370600N 1275900E - 372700N 1275800E	9 000 ft AMSL 3 000 ft AGL	FL 400 12 000 ft AMSL
<b>MOA 6</b> 373200N 1283100E - 373400N 1284300E - 372300N 1290600E - 371300N 1290300E - 371300N 1284100E - 371200N 1283100E - 373200N 1283100E	9 000 ft AMSL 3 000 ft AGL	FL 400 10 000 ft AMSL
<b>MOA 7</b> 381600N 1290000E - 381500N 1295100E - 374800N 1295100E - 374900N 1290000E - to the beginning	FL 400 10 000 ft AMSL	
<b>MOA 8</b> 371300N 1290300E - 372300N 1290600E - 365800N 1300000E - 365000N 1300000E - 365000N 1291500E - 365500N 1290300E - 371300N 1290300E	8 000 ft AMSL 3 000 ft AGL	FL 400 11 000 ft AMSL
<b>MOA 9E</b> 365000N 1293200E - 365000N 1300000E - 363000N 1300000E - 363000N 1293500E - 365000N 1293200E	10 000 ft AMSL 3 000 ft AGL	FL 400 11 000 ft AMSL
<b>MOA 9W</b> 365000N 1291500E - 365000N 1293200E - 363000N 1293500E - 363000N 1291500E - 365000N 1291500E	7 000 ft AMSL 3 000 ft AGL	FL 400 11 000 ft AMSL
<b>MOA 10</b> 365500N 1284100E - 365500N 1290300E - 365000N 1291500E - 363000N 1291500E - 362100N 1290600E - 364300N 1283000E - 365500N 1284100E	FL 400 10 000 ft AMSL	

Identification, name and lateral limits	Upper limit Lower limit	Remarks
1	2	3
<b>MOA 11</b> 370600N 1275900E - 371200N 1283100E - 371300N 1284100E - 365500N 1284100E - 364300N 1283000E - 365600N 1280300E - 370600N 1275900E	FL 400 12 000 ft AMSL	
<b>MOA 12W</b> 363000N 1291500E - 363000N 1293500E - 360500N 1293700E - 362100N 1290600E - 363000N 1291500E	7 000 ft AMSL 3 000 ft AGL	FL 400 11 000 ft AMSL
<b>MOA 12E</b> 363000N 1293500E - 363000N 1300000E - 360200N 1300000E - 360500N 1293700E - 363000N 1293500E	10 000 ft AMSL 3 000 ft AGL	FL 400 11 000 ft AMSL Exclude A586/Y579 ATS routes area during it's operational hours* * Refer to ENR 3.1-2(A586) & 3.3-9(Y579)
<b>MOA 13W</b> 354400N 1285000E - 355200N 1293000E - 355100N 1293600E - 351600N 1292100E - 351400N 1290700E - 354400N 1285000E	8 000 ft AMSL 3 000 ft AGL	FL 400 11 000 ft AMSL Exclude A586/Y579 ATS routes area during it's operational hours* * Refer to ENR 3.1-2(A586) & 3.3-9(Y579)
<b>MOA 13E</b> 355100N 1293600E - 354600N 1301300E - 352000N 1295000E - 351600N 1292100E - 355100N 1293600E	9 000 ft AMSL 3 000 ft AGL	FL 400 10 000 ft AMSL Exclude A586/Y579 ATS routes area during it's operational hours* * Refer to ENR 3.1-2(A586) & 3.3-9(Y579)
<b>MOA 14</b> 362600N 1282900E - 360200N 1291200E - 360000N 1290300E - 360000N 1283200E - 361200N 1281700E - 362600N 1282900E	FL 330 10 000 ft AMSL	
<b>MOA 15A</b> 354600N 1270200E - 354400N 1280600E - 351900N 1265900E - to the beginning	9 000 ft AMSL 3 000 ft AGL	
<b>MOA 15</b> 355900N 1270400E - 355800N 1273240E - 351400N 1272400E - 351857N 1265917E - to the beginning	FL 400 11 000 ft AMSL	
<b>MOA 16</b> 360458N 1244123E - 360501N 1253604E - 354000N 1253607E - 354000N 1244125E - to the beginning	FL 400 5 000 ft AMSL	
<b>MOA 17</b> 361959N 1253602E - 362000N 1262500E - 354000N 1262500E - 354000N 1253607E - to the beginning	FL 400 5 000 ft AMSL	
<b>MOA 18</b> 354000N 1244125E - 354000N 1253607E - 351501N 1253610E - 351500N 1244128E - to the beginning	FL 400 5 000 ft AMSL	
<b>MOA 19L</b> 354000N 1253607E - 354000N 1264000E - 351500N 1264000E - 351501N 1253610E - to the beginning	8 000 ft AMSL 3 000 ft AGL	
<b>MOA 19H</b> 354000N 1253607E - 354000N 1263925E - 351501N 1263647E - 351501N 1253610E - to the beginning	FL 400 10 000 ft AMSL	
<b>MOA 20</b> 351501N 1253610E - 351501N 1263647E - 345001N 1263409E - 345000N 1253612E - to the beginning	FL 400 10 000 ft AMSL	
<b>MOA 21</b> 345000N 1253612E - 345001N 1263409E - 342500N 1263134E - 342501N 1253613E - to the beginning	FL 400 10 000 ft AMSL	
<b>MOA 22</b> 345000N 1244131E - 345000N 1253612E - 342501N 1253613E - 342500N 1244133E - to the beginning	FL 400 5 000 ft AMSL	

Change : Remarks information.

Name and lateral limits	Upper limit Lower limit	Remarks
1	2	3
<b>MOA 23</b> 342500N 1244133E - 342501N 1253613E - 340000N 1253614E - 340001N 1245302E - 340044N 1245000E - 340245N 1244136E - to the beginning	FL 400 5 000 ft AMSL	
<b>MOA 24</b> 342501N 1253613E - 342500N 1263134E - 340000N 1262859E - 340000N 1253614E - to the beginning	FL 400 10 000 ft AMSL	
<b>MOA 25L</b> 344500N 1265600E - 344500N 1271700E - 341500N 1271700E - 341500N 1265300E - 344500N 1265600E	9 000 ft AMSL 3 000 ft AGL	
<b>MOA 25H</b> 350000N 1265712E - 350000N 1271814E - 340847N 1271813E - 340000N 1270500E - 340000N 1265043E - to the beginning	FL 400 10 000 ft AMSL	
<b>MOA 26L</b> 350000N 1271700E - 350000N 1282230E - 344930N 1282130E - 340800N 1271700E - to the beginning	9 000 ft AMSL 3 000 ft AGL	
<b>MOA 26H</b> 350000N 1271814E - 350000N 1282230E - 344930N 1282130E - 340847N 1271813E - to the beginning	FL 400 10 000 ft AMSL	
<b>MOA 27N</b> 355800N 1273240E - 355600N 1281500E - 353940N 1282410E - 353810N 1272850E - 355800N 1273240E	FL 400 11 000 ft AMSL	
<b>MOA 27S</b> 353810N 1272850E - 353940N 1282410E - 353745N 1282550E - 351515N 1282350E - 351400N 1272400E - 353810N 1272850E	FL 400 11 000 ft AMSL	
<b>MOA 27A</b> 351400N 1272400E - 353745N 1282550E - 351515N 1282350E - 351400N 1272400E	9 000 ft AMSL 3 000 ft AGL	
<b>MOA 28</b> 340941N 1280000E - 341801N 1281127E - 344104N 1284327E - 342012N 1283514E - 341017N 1284225E - 334219N 1282041E - 334000N 1280000E - to the beginning	FL 400 200 ft AGL	
<b>MOA 29</b> 334114N 1272122E - 340941N 1280000E - 334000N 1280000E - 333618N 1272756E - to the beginning	FL 400 3 000 ft AGL	
<b>MOA 30L</b> 375900N 1274700E - 380200N 1281200E - 374500N 1281200E - 374100N 1274700E - 375900N 1274700E	9 000 ft AMSL 2 000 ft AGL	
<b>MOA 30H</b> 375900N 1274700E - 380200N 1281200E - 374500N 1281200E - 374100N 1274700E - 375900N 1274700E	FL 400 10 000 ft AMSL	
<b>MOA 31L</b> 380200N 1281200E - 380400N 1283600E - 374800N 1283600E - 374500N 1281200E - 380200N 1281200E	9 000 ft AMSL 2 000 ft AGL	EXCEPT YANGYANG CTR
<b>MOA 31H</b> 380200N 1281200E - 380400N 1283600E - 374800N 1283600E - 374500N 1281200E - 380200N 1281200E	FL 400 10 000 ft AMSL	
<b>MOA 32</b> 373300N 1293800E - 373100N 1310000E - 364200N 1310000E - 372600N 1293300E - 373300N 1293800E	FL 400 10 000 ft AMSL	ROK Airforce Exclude A586/Y579 routes area during it's operational hours Refer to ENR 3.1-2(A586), 3.3-9(Y579)
<b>MOA 33</b> 373100N 1310000E - 373000N 1320000E - 371700N 1323500E - 363500N 1311300E - 364200N 1310000E - 373100N 1310000E	FL 400 10 000 ft AMSL	ROK Airforce Exclude A586/Y579 routes area during it's operational hours Refer to ENR 3.1-2(A586), 3.3-9(Y579)
<b>MOA 34</b> 343500N 1252500E - 343500N 1255000E - 345000N 1255000E - 345000N 1252500E - 343500N 1252500E	4 000 ft AMSL 500 ft AMSL	Republic of Korea Navy by NOTAM VMC
<b>MOA 35</b> 342000N 1252500E - 342000N 1255000E - 343500N 1255000E - 343500N 1252500E - 342000N 1252500E	4 000 ft AMSL 500 ft AMSL	Republic of Korea Navy by NOTAM VMC

Change : Information of lateral limits for MOA 28 and 29.

Name and lateral limits	Upper limit	Remarks
	Lower limit	
1	2	3
<b>MOA 36</b> 342000N 1250000E - 342000N 1252500E - 345000N 1252500E - 345000N 1250000E - 342000N 1250000E	4 000 ft AMSL 500 ft AMSL	Republic of Korea Navy by NOTAM VMC
<b>MOA 37</b> 372500N 1293000E - 372500N 1310000E - 363000N 1310000E - 361500N 1303500E - 364500N 1303500E - 371500N 1293000E - 372500N 1293000E	8 000 ft AMSL SFC	
<b>MOA 38</b> 373000N 1310000E - 373000N 1320000E - 370000N 1320000E - 363000N 1310000E - 373000N 1310000E	8 000 ft AMSL SFC	
<b>MOA 39</b> 332700N 1265200E - 334500N 1271500E - 333300N 1273200E - 331100N 1270400E - 332700N 1265200E	5 000 ft AMSL SFC	
<b>MOA 40</b> 342000N 1243000E - 342000N 1260000E - 334500N 1260000E - 334500N 1243000E - 342000N 1243000E	5 000 ft AMSL SFC	
<b>MOA 41</b> 334500N 1243000E - 334500N 1260000E - 331000N 1260000E - 331000N 1243000E - 334500N 1243000E	5 000 ft AMSL SFC	
<b>ACMI A</b> 370500N 1254200E - 370500N 1261000E - 364400N 1261000E - 364400N 1254200E - 370500N 1254200E	5 000 ft AMSL SFC	
<b>ACMI B</b> 370500N 1254200E - 370500N 1261000E - 364400N 1261000E - 364400N 1254200E - 370500N 1254200E	9 000 ft AMSL 6 000 ft AMSL	
<b>ACMI C</b> 370508N 1253600E - 370538N 1262158E - 370010N 1262530E - 364800N 1262900E - 364400N 1262900E - 364400N 1261000E - 363500N 1254200E - 363500N 1253600E - 370508N 1253600E	FL 600 10 000 ft AMSL	
<b>ACMI D</b> 370508N 1253600E - 370500N 1254200E - 363500N 1254200E - 363500N 1253600E - 370508N 1253600E	FL 600 SFC	
<b>ACMI E</b> 364400N 1254200E - 364400N 1261000E - 363500N 1254200E - 364400N 1254200E	FL 600 10 000 ft AMSL	
<b>DOKDO</b> 5 NM either side of center line, 360000N 1301000E - 364000N 1301000E	2 000 ft AGL 500 ft AGL	· Air Refueling · ACT : By NOTAM · 1 hour after sunset to 1 hour before sunrise
<b>MALLIPO</b> 362000N 1251000E - 362000N 1253400E - 355600N 1253400E - 355600N 1251000E - 362000N 1251000E	FL 250 FL 140	· Air Refueling United States Airforce · ACT : By NOTAM · 1 hour after sunset to 1 hour before sunrise
<b>WIDO</b> 350900N 1250700E - 350400N 1253100E - 343000N 1253100E - 343600N 1250700E - 350900N 1250700E	FL 250 FL 140	· Air Refueling United States Airforce · ACT : By NOTAM
<b>ULLEUNGDO</b> 364500N 1300400E - 363900N 1302400E - 360500N 1302400E - 361100N 1300400E - 364500N 1300400E	FL 250 FL 140	· Air Refueling United States Airforce · ACT : By NOTAM
<b>JINDO</b> 345621N 1253545E - 345624N 1260053E - 341511N 1260055E - 341516N 1253548E - to the beginning	FL 250 11 000 ft AMSL	Air Refueling Area Republic of Korea Airforce by NOTAM
<b>GANGGU</b> 364947N 1293505E - 365000N 1300000E - 361546N 1300000E - 361556N 1293814E - to the beginning	FL 250 12 000 ft AMSL	Air Refueling Area Republic of Korea Airforce by NOTAM
<b>HTA 1</b> 371100N 1263700E - 371100N 1264600E - 370300N 1264600E - 370300N 1263700E - 371100N 1263700E	1 000 ft AMSL SFC	Helicopter Training Area ROKAF MCRC
<b>HTA 2</b> 371100N 1262500E - 371100N 1263700E - 370300N 1263700E - 370300N 1262500E - 371100N 1262500E	1 500 ft AMSL SFC	Helicopter Training Area ROKAF MCRC

## 2. AIR DEFENCE IDENTIFICATION ZONE(ADIZ)

Name and lateral limits	Upper limit	Remarks (time of activity, type of restriction, nature of hazard, risk of interception)
	Lower limit	
1	2	3
<b>KOREA ADIZ(KADIZ)</b> 3900N 12330E - 3900N 13300E- 3717N 13300E - 3600N 13030E- 3513N 12948E - 3443N 12909E- 3417N 12852E - 3230N 12730E- 3230N 12650E - 3000N 12525E- 3000N 12400E - 3700N 12400E- 3900N 12330E	UNL SFC	

### 2.1 한국방공식별구역 비행절차

2.1.1 방공식별구역을 비행하고자 하는 자는 비행을 시작하기 전에 비행계획을 수립하여 국방부장관에게 제출하여야 한다. 다만, 긴급출동 등 국방부장관이 정하여 고시하는 사유로 비행시작 전에 비행계획을 제출하지 못하는 경우에는 비행 중에 제출할 수 있다.

2.1.2 군용항공기가 아닌 항공기에 대하여 항공안전법 제67조 제2항 제4호의 비행규칙에 따라 국토교통부장관에게 비행계획을 제출한 경우에는 제1항에 따라 비행계획을 제출한 것으로 본다. 이 경우 국토교통부장관은 제출된 비행계획을 국방부장관에게 지체 없이 통보하여야 한다.

2.1.3 방공식별구역을 비행하는 모든 항공기는 다음 각 호의 절차에 따라 비행하여야 한다. 다만, 국방부장관의 허가를 받아 국방부장관이 정하는 비행절차에 따라 비행하는 경우에는 그러하지 아니하다.

- 항공기의 공대지 양방향무선통신기를 작동시켜야 하며, 지속적으로 관할 항공교통관제기관 또는 관련 군 기관의 음성통신을 경청한다.
- 2차 감시 레이더용 트랜스폰더를 작동시키고, 항공교통관제기관 또는 관련 군 기관이 지정한 코드를 입력한다.

### 2.1 Flight procedures within Korea ADIZ(KADIZ)

2.1.1 Pilots who want to fly within the the KADIZ shall submit a flight plan to the Minister of Defense prior to conducting the flight. If it is impossible to submit a flight plan before departure due to reasons such as an urgent mission specified by the Minister of Defense, the flight plan concerned can be submitted during flight.

2.1.2 In cases when aircraft other than military aircraft submit a flight plan to the Minister of Land, Infrastructure and Transport Affairs in accordance with Article 67-2-4 of Civil Aviation Safety Act, it is considered that the requirement specified 1.1 will be met.

2.1.3 Aircraft shall comply with the following procedures while operating within the KADIZ except when operating is conducted in accordance with procedures designated by the Minister of Defense after obtaining the permission :

- Aircraft shall establish two-way air-ground radio communications and monitor continuous voice communications with an appropriate air traffic control or military unit.
- Aircraft shall operate Secondary Surveillance Radar(SSR) transponders and set the SSR codes directed by air traffic control or military authority concerned.



## 2.2 위치보고

2.2.1 방공식별구역을 비행하는 항공기는 다음 각 호에 따라 국방부장관에게 위치보고를 하여야 한다. 다만, 2.1.1 및 2.1.2에 따라 제출한 비행계획에 따라 관제구역(방공식별구역 내 관제공역을 포함한다)에서 비행하는 경우에는 a항 및 b항에 따른 위치보고를 생략할 수 있다.

- a. 관제공역을 통하여 방공식별구역으로 진입할 때에는 방공식별구역 진입 전 최종 위치보고 시 방공식별구역 통과예정시간을 보고하여야 한다.
- b. 관제구역이 아닌 공역을 통하여 방공식별구역으로 진입할 때에는 방공식별구역 진입 30분 전부터 15분 전 사이에 방공식별구역 통과예정시간, 통과지점 및 비행 고도를 보고하여야 한다.
- c. 방공식별구역에서는 30분마다 위치보고를 하여야 한다.

## 2.3 책임기관

합동참모본부 공중작전과

Tel : 02)748-3435  
Fax : 02)796-0369

## 2.2 Position report

2.2.1 Aircraft shall give position reports to the Minister of Defense while operating within KADIZ. In cases where a flying is conducted in controlled airspace according to the filed flight plan as specified in paragraph 2.1.1 and 2.1.2, position reports contained items a and b may be omitted.

- a. If flying in controlled airspace, ETA at KADIZ boundary point shall be given when a position report is made at the last reporting point prior to entering the KADIZ.
- b. If flying outside controlled airspace, aircraft shall give the ETA at the KADIZ boundary, point of penetration and altitude at least 15 and nor more than 30 minutes prior to entering the KADIZ.
- c. Position reports shall be made every 30 minutes while within the KADIZ.

## 2.3 Responsible authority

Air Operations Branch  
Joint Chiefs of Staff

Tel : +82-2-748-3435  
Fax : +82-2-796-0369

3. ALERT AREA

Identification, name and lateral limits 1	Upper limit Lower limit (FT) 2	Remarks (time of activity, type of restriction, nature of hazard, risk of interception) 3
<b>RK A2 ASAN</b> 365118N 1265223E - 365117N 1270800E - 364501N 1270757E - 364447N 1265407E - to the beginning.	5 000 ft MSL SFC	US Army / ASAN High Density Military Helicopter Training & Maintenance Test Flight MON-FRI : 2300-1300, SAT : 2300-0400 Common traffic advisory frequency 117.1
<b>RK A18 GANGNEUNG</b> A circle, 5NM radius centered at 374500N 1285700E	FL150 SFC	ROKAF / GANGNEUNG MON-SAT WX COND : Above CEILING 3000 ft-VIS 3NM Gangneung APP All aircraft are required to contact Gangneung TWR before entering this area
<b>RK A19 JUNGWON</b> 370300N 1274700E - 370800N 1275300E - 370400N 1275900E - 365900N 1275300E - to the beginning	FL150 SFC	ROKAF / JUNGWON DAILY 2100-1400 WX COND : VMC Jungwon APP All aircraft are required to contact Jungwon TWR before entering this area
<b>RK A19T JUNGWON TFR</b> 370800N 1273800E - 370800N 1275300E - 370300N 1274700E - 365900N 1275300E - 365600N 1275300E - 365600N 1273800E - to the beginning	2 000 ft AGL 800 ft AGL	ROKAF / JUNGWON DAILY 2300-0900 (from every hour on the hour plus 10 min, for example: 2300-2310, 0000-0010,...) WX COND : IMC-VMC Jungwon APP * All aircraft passing through this area during the time of activation shall contact Jungwon APP or TWR. * It is recommended that all helicopters fly lower than 500 ft above the airport.
<b>RK A20T SEOSAN TFR</b> 370000N 1263000E - 363000N 1265100E - 362400N 1263000E - 364330N 1261000E - to the beginning	2 000 ft AGL 700 ft AGL	ROKAF / SEOSAN MON-SAT WX COND : IMC-VMC Haemi APP Daytime : from 45 min to 59 min in every odd hour (for example: 0145-0159, 0345-0359,...) Night time : from sunset to sunrise plus 1 hour
<b>RK A810 HANAM</b> A circle, 2.5NM radius centered at 373207N 1271049E (excluding the area which overlaps with Seoul CTR)	1 000 ft AGL SFC	ROKA / HANAM 40.85 kHz, 133.800 MHz, 228.400 MHz High Density Military Helicopter training MON-FRI : 2300-1300, SAT : 2300-0400
<b>RK A811 BUCHEON</b> A circle, 2NM radius centered at 372835N 1264450E (excluding the area which overlaps with Gimpo CTR)	1 000 ft AGL SFC	ROKA / BUCHEON 37.70 kHz, 132.250 MHz, 250.350 MHz High Density Military Helicopter training MON-FRI : 2300-1300, SAT : 2300-0400

Change : Withdrawal of the alert area(A801~A809, A813~A815), establishment of the alert area(A2).

INTENTIONALLY

LEFT

BLANK