

ENR 5.3 OTHER ACTIVITIES OF A DANGEROUS NATURE AND OTHER POTENTIAL HAZARDS

1. Other activities of a dangerous nature

Civil Aircraft Training Area (CATA)

<i>Lateral limits coordinates</i>	<i>Vertical limits</i>	<i>Advisory measures</i>	<i>Authority responsible for INFO</i>	<i>Remarks Time for ACT</i>
1	2	3	4	5
CATA 1 ULLEUNG ISLAND 382502N 1301000E - 382400N 1311108E 381400N 1311100E - 374700N 1301000E 382502N 1301000E	FL 420 8 000 ft AMSL			2100-1300 UTC
CATA 2 JEJU ISLAND 340011N 1245953E - 340011N 1254953E - 331512N 1254953E - 331512N 1245953E - 340011N 1245953E	FL 420 6 000 ft AMSL			2100-1300 UTC (by NOTAM)
CATA 3 JEJU ISLAND 332800N 1263900E - 332700N 1265200E - 330800N 1270600E - 330200N 1270000E - 330200N 1264400E - 330500N 1264400E - 330500N 1263000E - 332800N 1263900E	7 000 ft AMSL SFC			2100-1300 UTC
CATA 4A GOCHANG 352511N 1262953E - 352511N 1263953E - 352211N 1263953E - 351011N 1262453E - 351011N 1261453E - 351311N 1261453E 352511N 1262953E	7 000 ft AMSL 1 000 ft AGL			HJ (by NOTAM)
CATA 4B GOCHANG 351011N 1262453E - 352211N 1263953E - 351011N 1263953E - 351011N 1262453E	3 500 ft AMSL 1 000 ft AGL			HJ (by NOTAM)
CATA 5 YEONGGWANG 353011N 1255953E - 353011N 1261953E - 351811N 1261953E - 351811N 1255953E - 353011N 1255953E	7 000 ft AMSL 1 000 ft AGL			HJ (by NOTAM)
CATA 6 JEDONG 331500N 1261800E - 331500N 1263400E - 330500N 1263000E - 330200N 1263000E - 330200N 1261800E - 331500N 1261800E	7 000 ft AMSL 4 000 ft AMSL			2100-1300 UTC
CATA 7L ULJIN 365000N 1292607E - 365000N 1295052E- 363000N 1295052E - 363000N 1292607E- 365000N 1292607E	2 500 ft AGL SFC			H24
CATA 7H ULJIN 365000N 1292607E - 365000N 1295052E- 363000N 1295052E - 363000N 1292607E- 365000N 1292607E	5 000 ft AMSL 2 500 ft AGL			by NOTAM

Permanently sited lasers and light beams

Lateral limits coordinates	Vertical limits	Advisory measures	Authority responsible for INFO	Remarks
1	2	3	4	5
Gwangsan Bridge Circle with radius of 15 NM centered on 350845N 1290743E	4 000 ft AMSL SFC	1) Horizontal scan range : BTN 295 DEG and Clockwise 320 DEG Vertical scan range : BTN 0 DEG and 5 DEG 2) Color : Green, Red, Blue 3) Power : 6 W 4) The beam is bright enough to cause a distraction interfering with critical task performance within a vertical distance of 4 000 ft and horizontal distance of 8 NM from laser source.		Daily 1130-1140, 1230-1240, 1330-1340 UTC
Satellite Laser Ranging system operation, at SEJONG 363115.6N 1271810.5E	UNL	Research laser operation using a Satellite Laser Ranging system for determining the precise orbits of satellites passing over SOUTH KOREA. 1) Horizontal scan range : BTN 000 DEG and 360 DEG Vertical scan range : BTN 023 DEG and 087 DEG 2) Satellite Laser Ranging : ND:YAG 3) Wave length : 532 NM 4) Max energy per pulse : 2.85 mJ 5) Max repetition rate(frequency) : 2000 Hz 6) Pulse width : 50 ps @ 532 NM 7) Beam divergence angle : 5 – 200 arcsec 8) The Laser Hazard Reduction System (LHRS) : The installed LHRS provides a means of detecting aircraft before they intersect a transmitted laser beam. Upon detecting an aircraft by the radar, the LHRS provides a signal so that laser beam be blocked to transmit.	KASI (Korea Astronomy and Space Science Institute) TEL : 042-865-2188, 042-865-3235 010-9825-1268	H24
Busan Gyeongnam Lets run Park Circle with radius of 1 NM centered on 350917.70N 1285227.93E	100 ft AMSL SFC	1) Horizontal scan range : BTN 065 DEG and Clockwise 095 DEG Vertical scan range : BTN 0 DEG and Downward 5 DEG 2) Color : Green, Red, Blue 3) Power : 8 W 4) The beam is bright enough to cause a distraction interfering with critical task performance within a vertical distance of 100 ft and horizontal distance of 1 NM from laser source.		Daily 1100-1112, 1200-1212, 1300-1312, 1400-1412 UTC
Satellite Laser Ranging system operation, at GEOCHANG-GUN 353524.5N 1275511.7E	UNL	Research laser(0.9 W/40 W) operation using a Satellite Laser Ranging system for determining the precise orbits of satellites, space debris passing over SOUTH KOREA. 1) Horizontal scan range : BTN 000 DEG and 360 DEG Vertical scan range : BTN 020 DEG and 087 DEG 2) Satellite Laser Ranging : ND:YAG 3) Wave length : 532 NM, 1 064 NM 4) Max energy per pulse : 15 mJ / 4 J 5) Max repetition rate(frequency) : 60 Hz / 10 Hz 6) Pulse width : 20 ps / 1 000 ps 7) Beam divergence angle : 6.6 arcsec 8) The Laser Hazard Reduction System (LHRS) : The installed LHRS provides a means of detecting aircraft before they intersect a transmitted laser beam. Upon detecting an aircraft by the radar, the LHRS provides a signal so that laser beam be blocked to transmit.	KASI (Korea Astronomy and Space Science Institute) TEL : 070-7703-0309 042-865-3235 010-2620-7472	H24

Change : Information of satellite laser ranging system operation at Geochoang-gun.

<i>Lateral limits coordinates</i>	<i>Vertical limits</i>	<i>Advisory measures</i>	<i>Authority responsible for INFO</i>	<i>Remarks</i>
1	2	3	4	5
Laser Guide Star System at ILWOL mountain 364820N 1290544E	UNL	<p>Observation satellites in South Korea</p> <p>1) Horizontal scan range : BTN 000 DEG and 360 DEG Vertical scan range : BTN 030 DEG and 090 DEG</p> <p>2) Laser output power : 22 W</p> <p>3) Wave length : 589 NM</p> <p>4) Laser Beam diameter : 300 mm</p> <p>5) Laser safety circle with radius of 22 NM from laser site and interface with radar for adjacent aircraft avoidance</p>	DAPA (Defense Acquisition Program Administration)	H24
Korea Gas Corporation at JEJU 332821.4N 1261934.8E	<u>77 ft AMSL</u> SFC	<p>1) Horizontal scan range : BTN 265 DEG and clockwise 290 DEG Vertical scan range : BTN 2.2 DEG and 7.7 DEG</p> <p>2) Color : Green</p> <p>3) Power : 16 W</p> <p>4) Wavelength : 532 NM</p> <p>5) Laser emitting area</p> <p>a) Vertical distance : 77 ft AMSL</p> <p>b) Horizontal distance : 115 m (0.07 NM)</p>	KOGAS (Korea Gas Corporation) Tel : 064-766-3686 (Day) 064-766-3700 (Night)	Daily 1000-1400 UTC

Change : Establishment of Korea Gas Corporation at JEJU(KOGAS).



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