

22-FEB-2018

SSN-RKSM**1-10****AOI****AOI****GENERAL****Operational Hours****ATS Hours:** H24**AD OPS Hours:** 2100-1300**Airport Information****RFF:** AVBL, CAT not published**Fuel:** HS**PCN:** RWY 01/19: 82/R/B/W/T

RWY 02/20: 85/R/B/X/T

Customs: 2100-1300**Operation****Traffic Note**

LDG/TOF prohibited between 1300-2100 due to NAP, except 48HR in advance.

Warnings**KSM VOR** unusable:

- R301-R044 not checked due to P518 and P73 prohibited area.
- R045-R058 beyond 17NM below 7500ft.
- R059-R072 beyond 20NM below 8000ft.
- R073-R082 beyond 19NM below 8000ft.
- R083-R092 beyond 20NM below 10000ft.
- R093-R110 beyond 13NM below 8000ft.
- R161-R235 beyond 14NM below 9000ft.
- R236-R260 beyond 22NM below 13000ft.
- R261-R300 beyond 10NM below 13000ft.

KSM DME unusable:

- R301-R044 not checked due to P518 and P73 prohibited area.
- R045-R058 beyond 20NM below 7500ft.
- R059-R072 beyond 16NM below 9000ft.
- R073-R082 beyond 16NM below 8000ft.
- R083-R092 beyond 14NM below 10500ft.
- R093-R110 beyond 11NM below 9000ft.
- R111-R160 beyond 16NM below 7000ft.
- R161-R235 beyond 24NM below 9000ft.
- R236-R260 beyond 13NM below 13000ft.
- R261-R300 beyond 7NM below 16000ft.

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SSN-RKSM**1-20****AOI****AOI****ARRIVAL****Communication****COM Failure****PAR Y RWY 19, 20**

If no transmissions are received for 5s on final APCH, attempt contact TWR 126.200 and proceed VFR. If unable, proceed with KSM VOR/DME APCH and maintain 7000ft until established on APCH.

PAR Z RWY 19, 20

If no transmissions are received for 5s on final APCH, attempt contact TWR 126.200 and proceed VFR. If unable, proceed with SOL DME APCH and maintain 7000ft until established on APCH.

PAR X RWY 19, 20

If no transmissions are received for 1min in the pattern or 5s on final APCH, attempt contact TWR 126.200 and proceed VFR.

If unable, proceed with KSM VOR/DME or SOL DME APCH and maintain 7000ft until established on APCH.

Arrival Procedure

Reverse: Do not use more than idle reverse if possible.

DEPARTURE**Take-off Minima**

| RWY | | 19, 20 | |
|---------|------------|----------|--|
| 1+2 ENG | | 0 - 1.0V | All other DEP SID SEOUL 2, SID EGOBA 5: MNM climb gradient 7.4% up to 3000 SID RICOE 5: MNM climb gradient 7.4% up to 6000 |
| 3+4 ENG | ft - ft/SM | 0 - 0.5V | SID NOROO 1: MNM climb gradient 8.3% up to 3000 SID YEOJU 1: MNM climb gradient 8.3% up to 4000 |

| RWY | | 01, 02 | |
|----------|------------|-------------|--|
| 1+2 ENG | | 0 - 1.0V | - |
| 3+4 ENG | | 0 - 0.5V | - |
| All ACFT | ft - ft/SM | c300 - 1.0V | SID MEESA 1: MNM climb gradient 7.1% up to 5000 SID SEOUL 1: MNM climb gradient 7.6% up to 5200 SID RICOE 5: MNM climb gradient 8.1% up to 2700 SID SEOUL 2: MNM climb gradient 8.1% up to 5500 SID EGOBA 5: MNM climb gradient 8.1% up to 6000 |

22-FEB-2018

SSN-RKSM**1-30****AOI****AOI****DEPARTURE****Communication****COM Failure****SEOUL 1, SEOUL 2**

If contact is not established on RICOE TR route prior to reaching 6000ft, maintain 6000ft and attempt contact OSAN DEP CTL (127.900).

Departure Procedure**Noise Abatement Procedure**

Use ICAO Standard NADP 1 including the following:

- Thrust reduction at 1500ft AAL is recommended.
- Whenever practical, climb with MAX climb gradient until reaching 3000ft AGL.

De-Icing

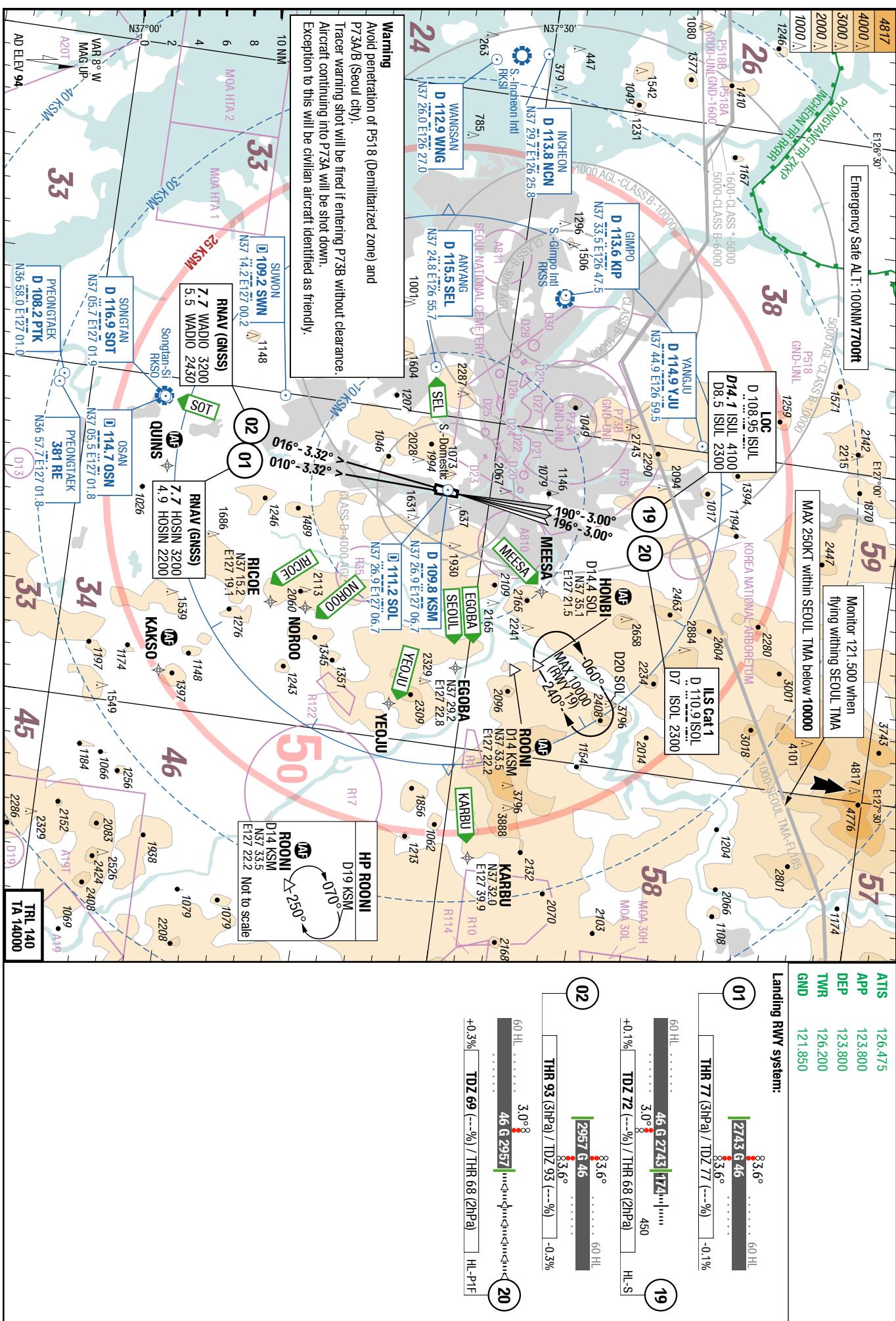
AVBL

SSN-RKSM

2-10

AFC  mestic

AFC Seoul Domestic **Seoul** Korea, Republic of
[AGC]



Changes: Completely revised

Effective 09-Nov-2017

02-NOV-2017

SSN-RKSM

3-20

Korea, Republic of Seoul Seoul Domestic

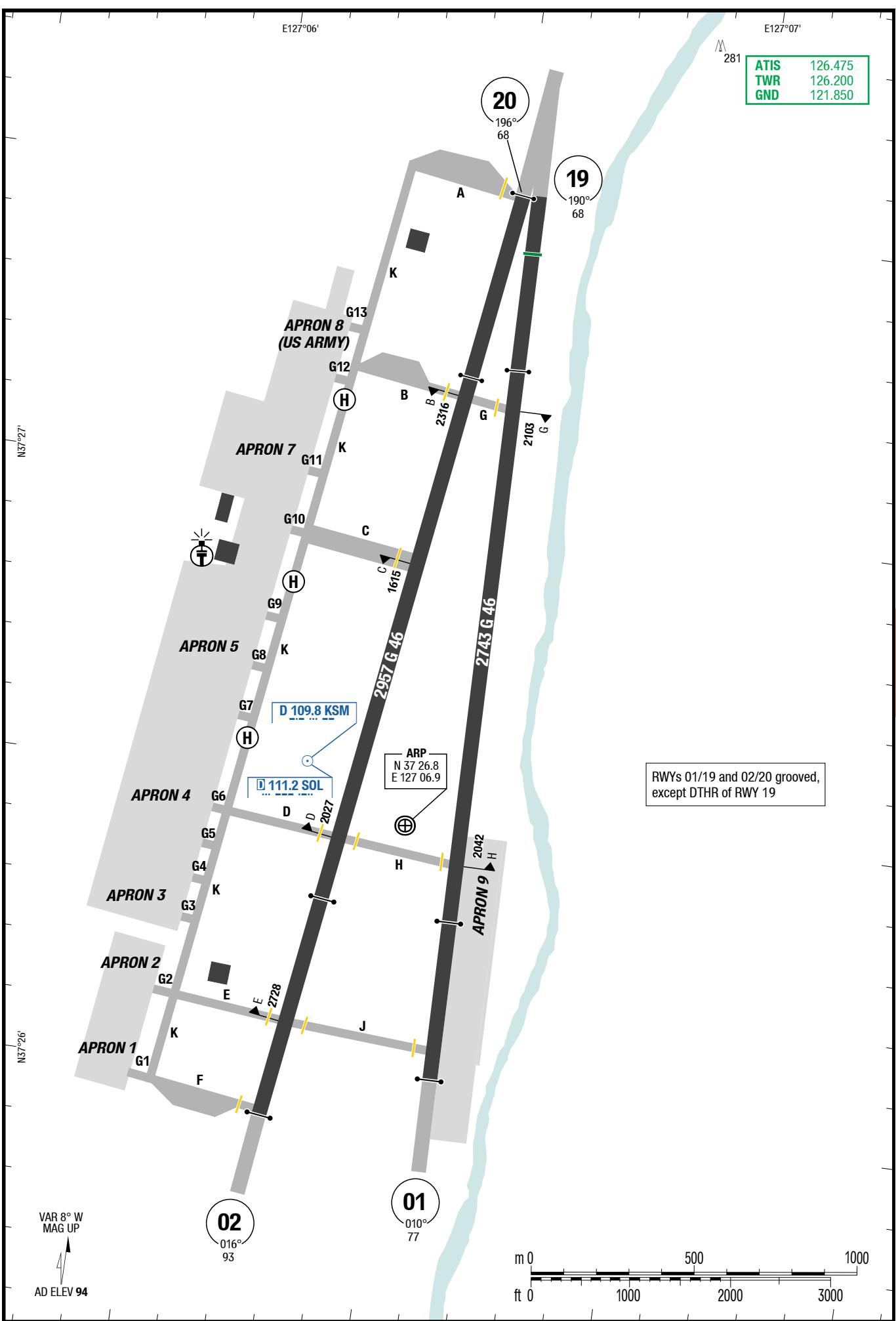
AGC

AGC

AGC

Seoul Domestic Seoul Korea, Republic of

| | |
|------|---------|
| ATIS | 126.475 |
| TWR | 126.200 |
| GND | 121.850 |



28-OCT-2016

SSN-RKSM

Republic of Korea Seoul Seoul Domestic

NOROO 1 RNAV

4-10

MEESA 1 RNAV

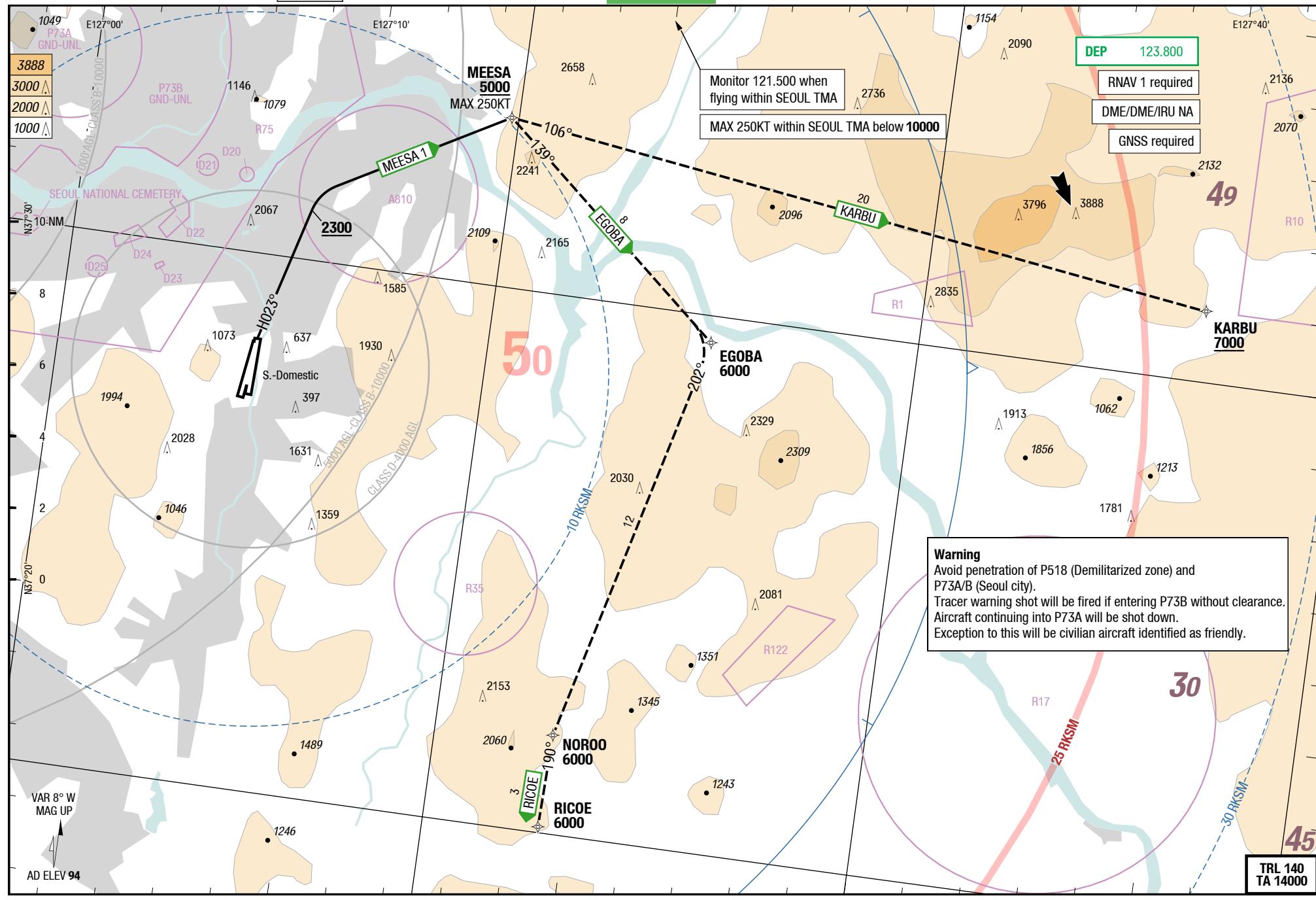
SID

SID

Seoul Domestic Seoul Republic of Korea

NOROO 1 RNAV

MEESA 1 RNAV



28-OCT-2016

Republic of Korea **Seoul** Seoul Domestic

SSN-RKSM

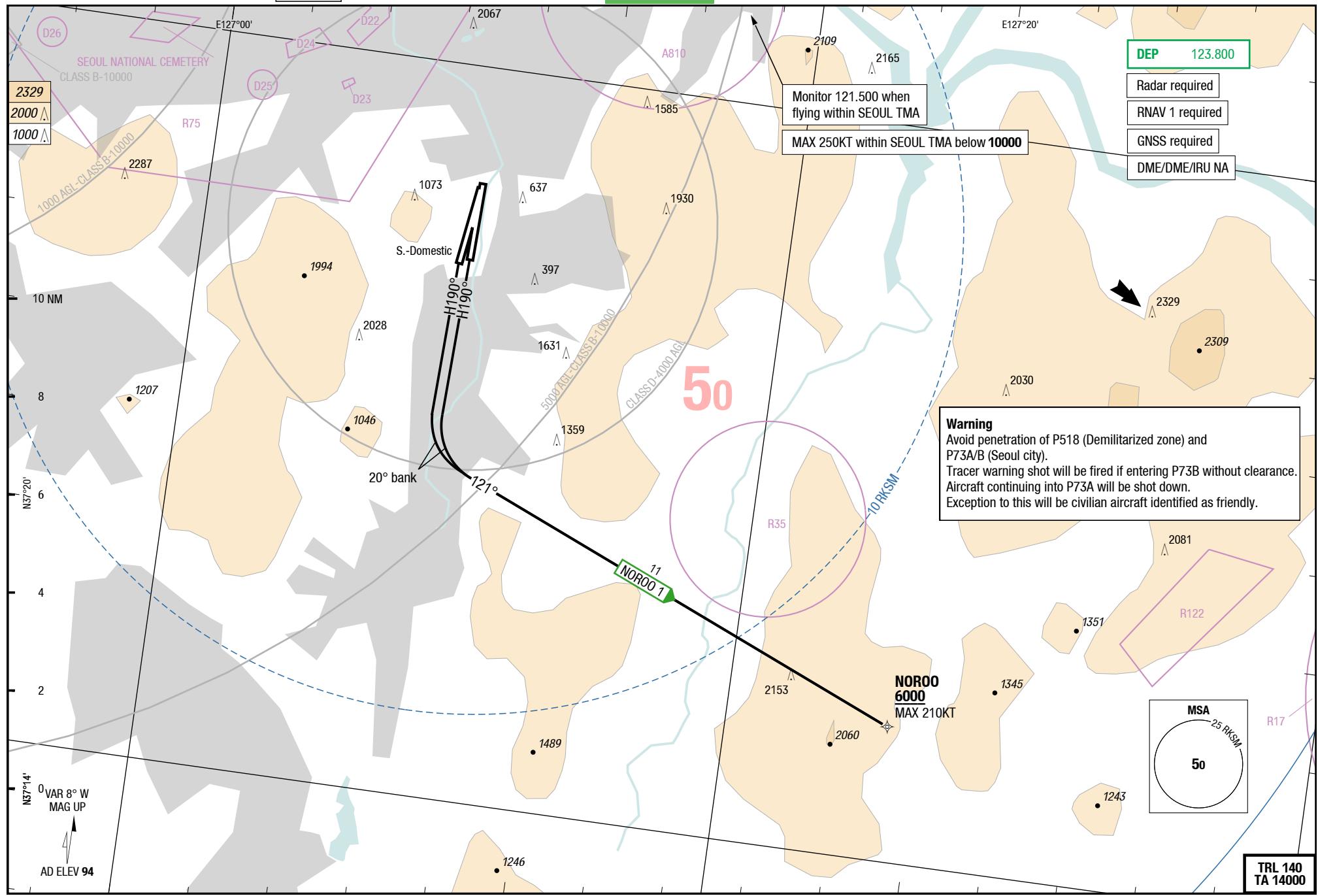
4-20

NOROO 1 RNAV

3

Seoul Domestic **Seoul** Republic of Korea

NOROO 1 RNAV



28-OCT-2016

Republic of Korea **Seoul** Seoul Domestic

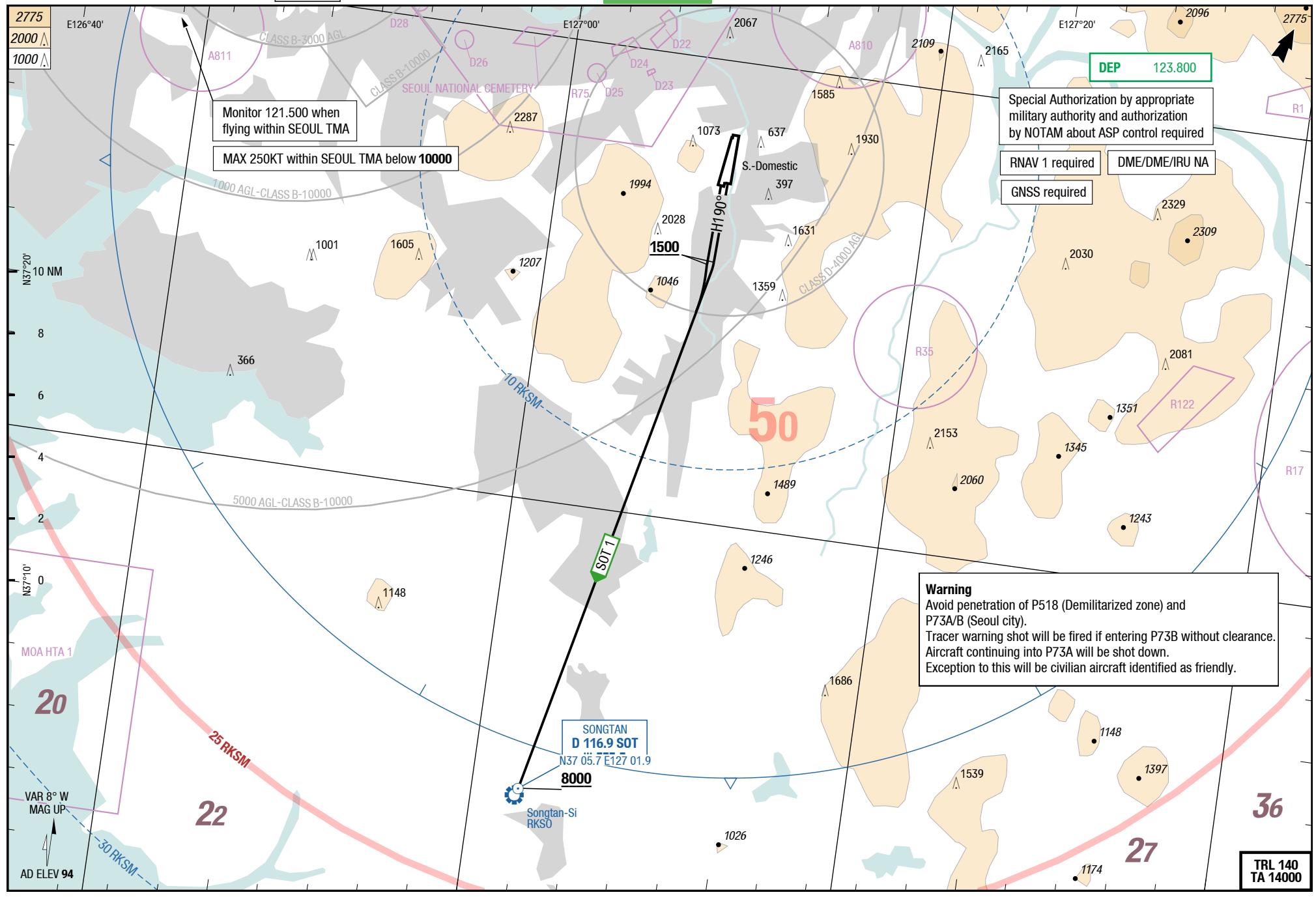
S/D

Seoul Domestic **Seoul** Republic of Korea

YEON 1 RNAV

4-30

SOT 1 RNAV



28-OCT-2016

Republic of Korea **Seoul** Seoul Domestic

SSN-RKSM

4-40

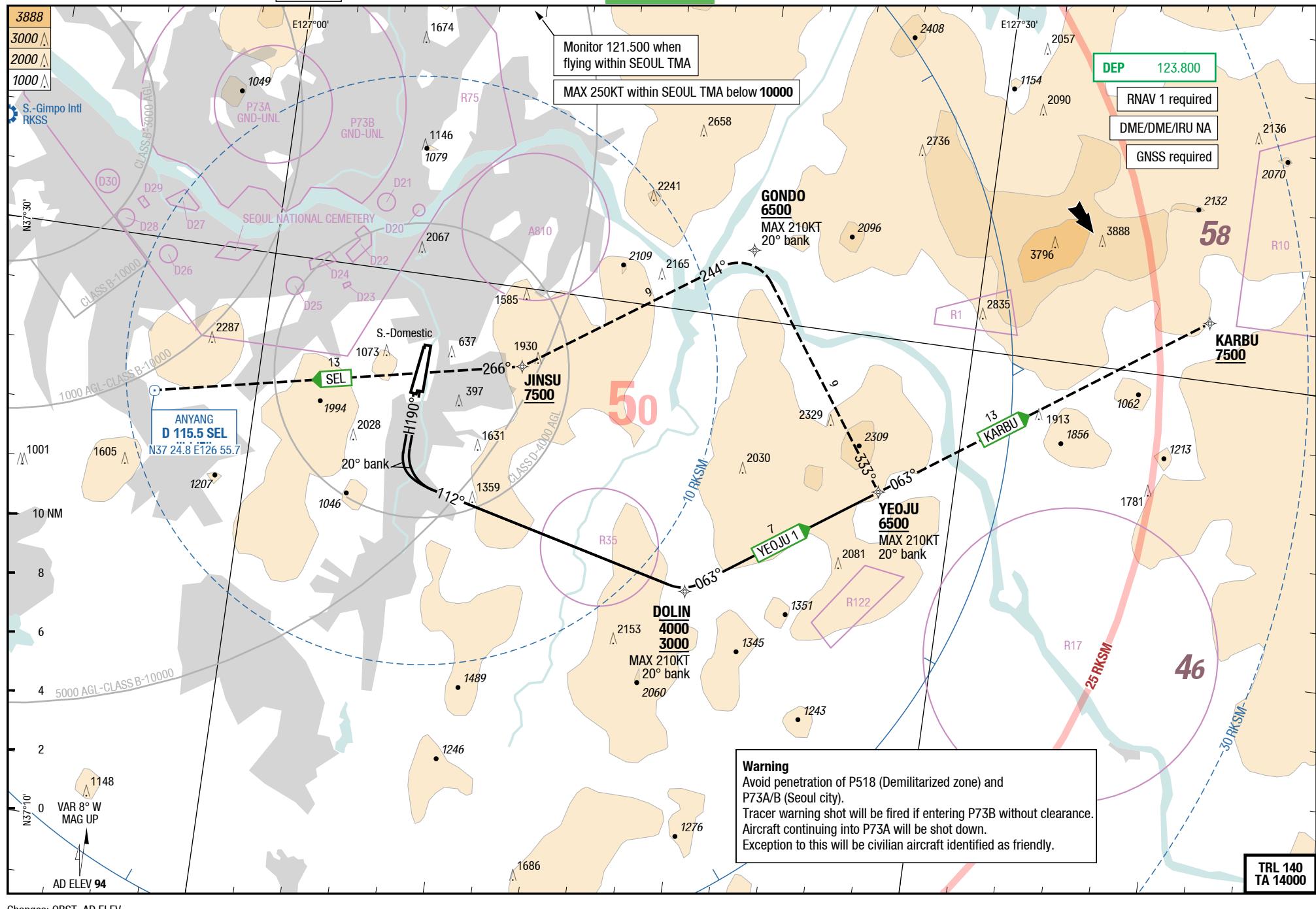
YEOJU 1 RNAV

Seoul Domestic **Seoul** Republic of Korea

SD

SID

YEOJU 1 RNAV



Effective 09-NOV-2017

02-NOV-2017

SSN-RKSM

Korea, Republic of Seoul Seoul Domestic

RICOE 5

EGOBA 5

4-50

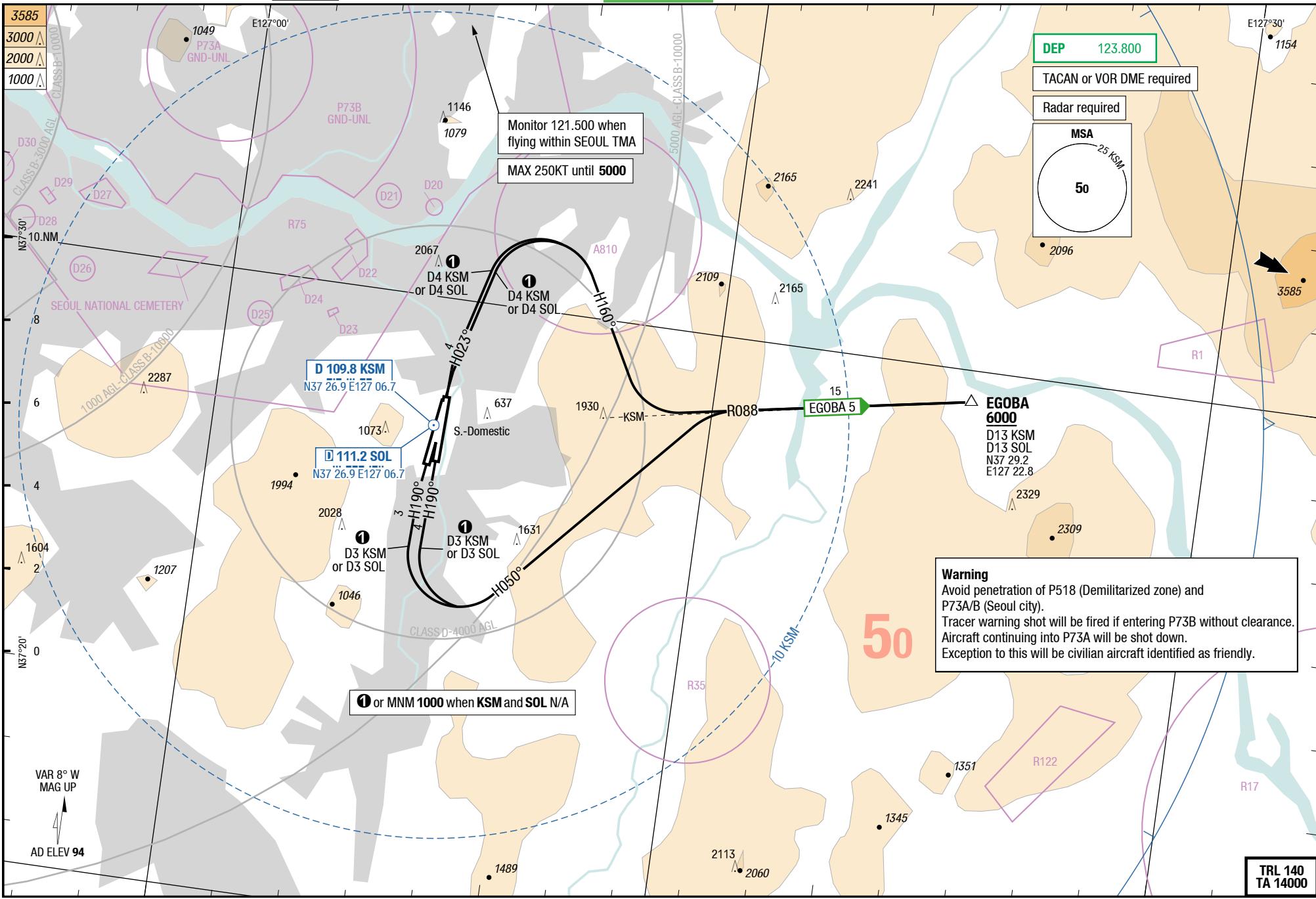
Seoul Domestic Seoul Korea, Republic of

RICOE 5

EGOBA 5

SID

SID



Changes: Completely revised

**Effective 09-NOV-2017
02-NOV-2017**

Korea, Republic of **Seoul** Seoul Domestic

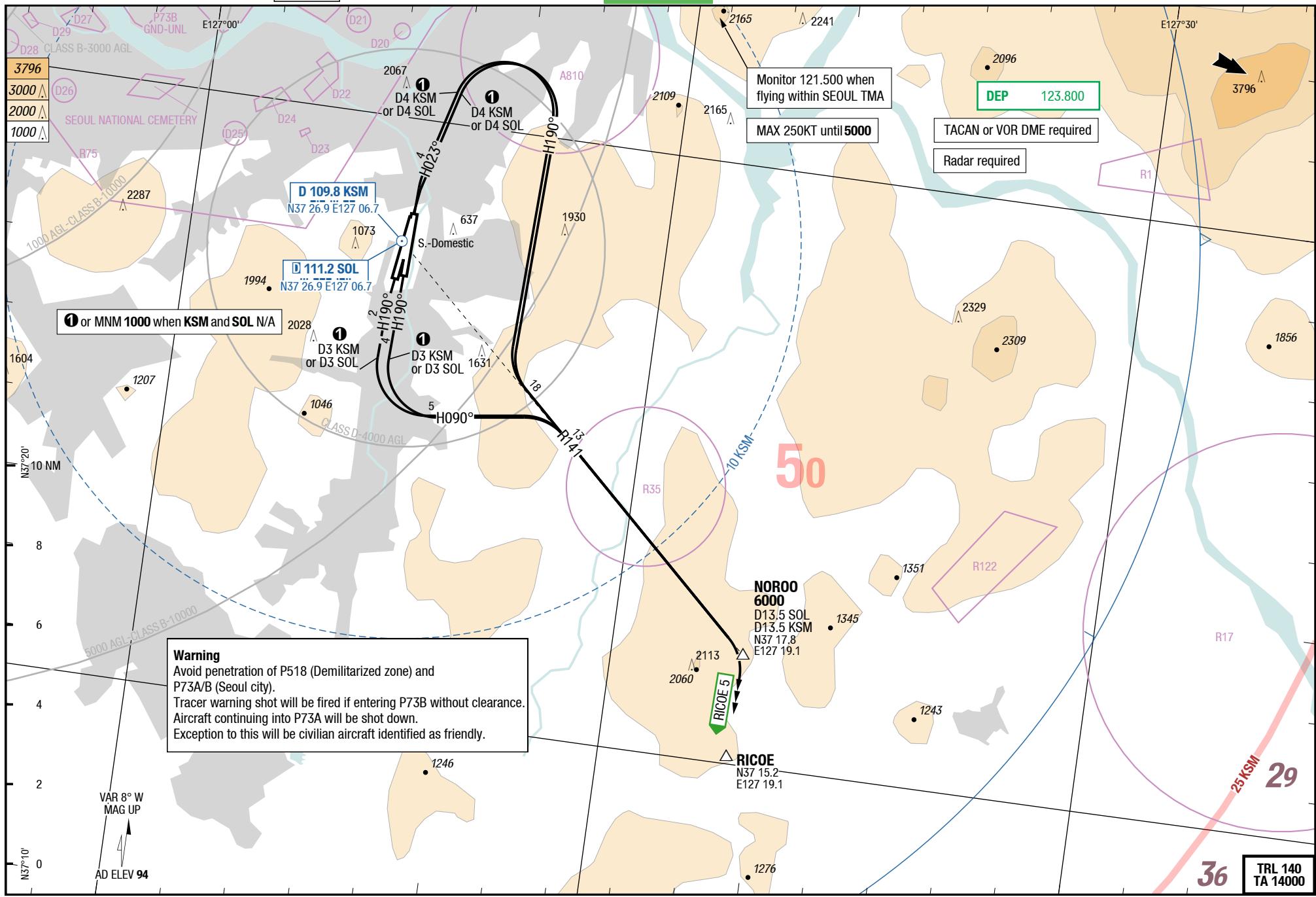
SSN-RKSM

4-60

RICOE 5

Seoul Domestic **Seoul** Korea, Republic of

RICOE 5



**Effective 09-NOV-2017
02-NOV-2017**

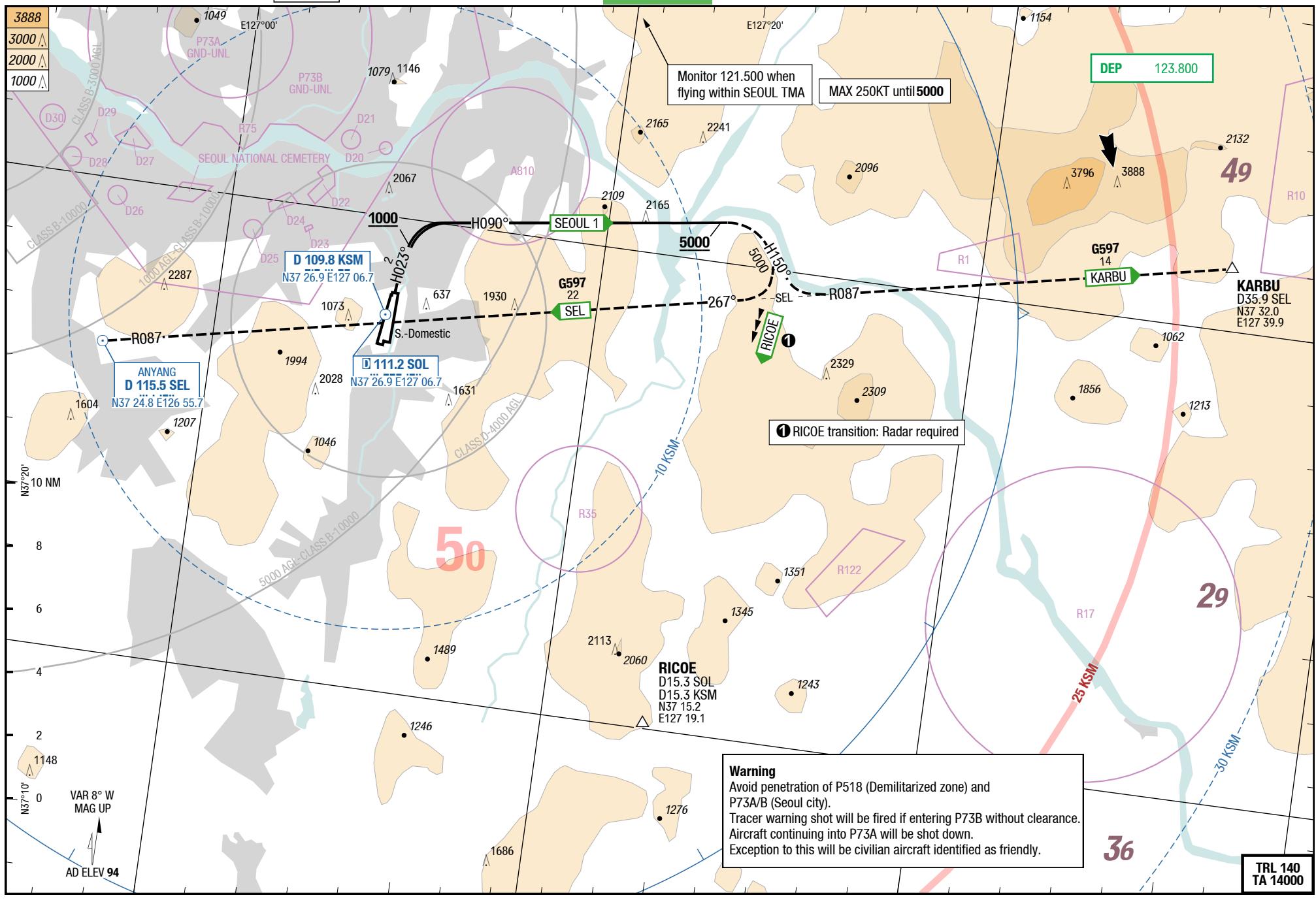
Korea, Republic of **Seoul** Seoul Domestic

SEOUL 2
SEOUL 1

Seoul Domestic **Seoul** Korea, Republic of
SEoul 2
SEoul 1

SSN-RKSM

4-70



**Effective 09-NOV-2017
02-NOV-2017**

Korea, Republic of **Seoul** Seoul Domestic

SSN-RKSN

SSN-RKSM

SEOUL 2

Seoul Domestic **Seoul** Korea, Republic of

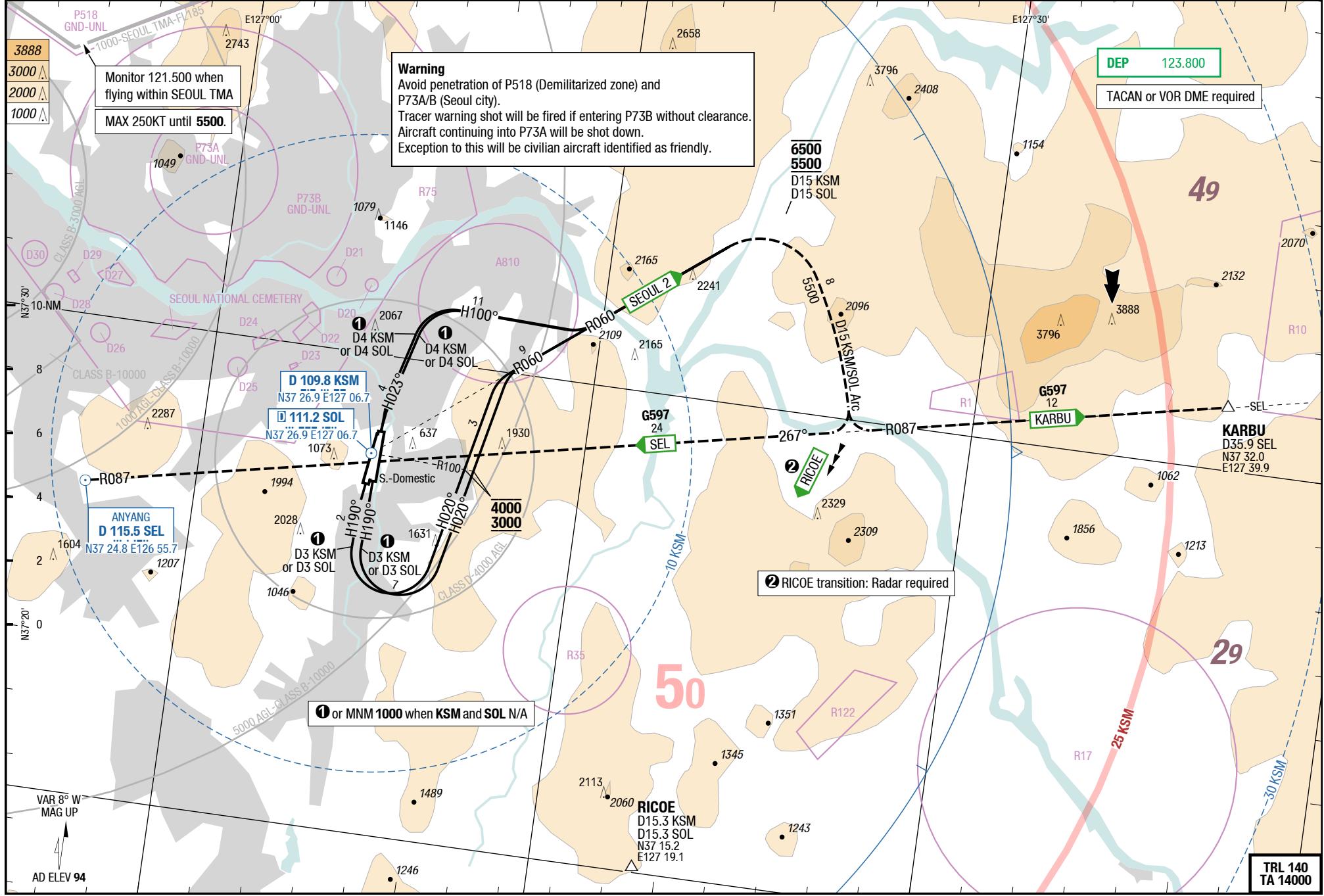
SEOUL 2

-80

SEOUL 2

SEOUL 2

DE10



28-OCT-2016

SSN-RKSM**5-10****MEESA 1 RNAV**

SIDPT

MEESA 1

RWYs 01 (010°) / 02 (016°)

| | | | | | | | |
|------|--------|-----|------|------|------|------|------|
| | GS | 120 | 150 | 180 | 210 | 240 | 270 |
| 7.1% | ft/MIN | 900 | 1100 | 1300 | 1600 | 1800 | 2000 |

| DESIGNATOR | ROUTING | ALTITUDES |
|--|---|--|
| | Runway 01 | |
| MEESA 1 7.1% to 5000 123.800 ①③ | HDG 023° - at MNM 2300 RT direct MEESA (MAX 250KT) | MEESA MNM 5000 initial climb 6000 |
| | TRANSITION | |
| | EGOBA MEESA - EGOBA | EGOBA at 6000 |
| | KARBU MEESA - KARBU | KARBU MNM 7000 |
| | RICOE MEESA - EGOBA - NOROO - RICOE | EGOBA at 6000 NOROO at 6000 RICOE at 6000 |
| | Runway 02 | |
| MEESA 1 7.1% to 5000 123.800 ②③ | HDG 023° - at MNM 2300 RT direct MEESA (MAX 250KT) | MEESA MNM 5000 initial climb 6000 |
| | TRANSITION | |
| | EGOBA MEESA - EGOBA | EGOBA at 6000 |
| | KARBU MEESA - KARBU | KARBU MNM 7000 |
| | RICOE MEESA - EGOBA - NOROO - RICOE | EGOBA at 6000 NOROO at 6000 RICOE at 6000 |

- ① Hills, 3321ft from DER, 1411ft left of centerline, up to 230ft MSL / 161ft AGL. Terrain, 1964ft right of centerline, up to 342ft MSL / 273ft AGL.
- ② Terrain 2181ft right of centerline, up to 342ft MSL / 250ft AGL.
- ③ Expect filed ALT 10 MIN after DEP.

28-OCT-2016

SSN-RKSM**5-20****NOROO 1 RNAV****NOROO 1**

RWYs 19 (190°) / 20 (196°)

| | GS | 120 | 150 | 180 | 210 | 240 | 270 |
|------|--------|-----|------|------|------|------|------|
| 7.1% | ft/MIN | 900 | 1100 | 1300 | 1600 | 1800 | 2000 |

| DESIGNATOR | ROUTING | ALTITUDES |
|---|--|-----------------------|
| | Runway 19 | |
| NOROO 1 7.1% to 5000 123.800 ① | HDG 190° - LT (20° bank) 121° to NOROO (MAX 210KT) | NOROO MNM 6000 |
| | Runway 20 | |
| NOROO 1 7.1% to 5000 123.800 ① | HDG 190° - LT (20° bank) 121° to NOROO (MAX 210KT) | NOROO MNM 6000 |

① If unable to comply with climb gradient, advise ATC on initial contact.

28-OCT-2016

SSN-RKSM**5-30****SOT 1 RNAV**

SIDPT

SONGTAN 1

RWYs 19 (190°) / 20 (196°)

| | GS | 120 | 150 | 180 | 210 | 240 | 270 |
|------|--------|------|------|------|------|------|------|
| 8.3% | ft/MIN | 1100 | 1300 | 1600 | 1800 | 2100 | 2300 |

| DESIGNATOR | ROUTING | ALTITUDES |
|--|--------------------------------------|---------------------|
| | Runway 19 | |
| SONGTAN 1 SOT 1 8.3% to 5000 123.800 ①② | HDG 190° - at MNM 1500 RT direct SOT | SOT MNM 8000 |
| | Runway 20 | |
| SONGTAN 1 SOT 1 8.3% to 5000 123.800 ①② | HDG 190° - at MNM 1500 RT direct SOT | SOT MNM 8000 |

① If unable to comply with climb gradient, advise ATC on initial contact.

② Special authorization by appropriate military authority and authorization by NOTAM about ASP control required.

28-OCT-2016

SSN-RKSM**5-40****YEOJU 1 RNAV****YEOJU 1**

RWYs 19 (190°) / 20 (196°)

| | GS | 120 | 150 | 180 | 210 | 240 | 270 |
|------|--------|------|------|------|------|------|------|
| 8.3% | ft/MIN | 1100 | 1300 | 1600 | 1800 | 2100 | 2300 |

| DESIGNATOR | ROUTING | ALTITUDES |
|--|--|---|
| | Runway 19 | |
| YEOJU 1 8.3% to 5000 123.800 ①② | HDG 190° - LT (20° bank) 112° to DOLIN (MAX 210KT) - LT (20° bank) 063° to YEOJU (MAX 210KT) | DOLIN between 3000 and 4000 YEJOU MNM 6500 Initial climb 6500 |
| | TRANSITION | |
| | ANYANG (SEL) YEJOU - GONDO (MAX 210KT) - JINSU - SEL | GONDO MNM 6500 JINSU MNM 7500 |
| | KARBU YEJOU - KARBU | KARBU MNM 7500 |
| | Runway 20 | |
| YEOJU 1 8.3% to 5000 123.800 ①② | HDG 190° - LT (20° bank) 112° to DOLIN (MAX 210KT) - LT (20° bank) 063° to YEOJU (MAX 210KT) | DOLIN between 3000 and 4000 YEJOU MNM 6500 Initial climb 6500 |
| | TRANSITION | |
| | ANYANG (SEL) YEJOU - GONDO (MAX 210KT) - JINSU - SEL | GONDO MNM 6500 JINSU MNM 7500 |
| | KARBU YEJOU - KARBU | KARBU MNM 7500 |

① Expect filed ALT 10 MIN after DEP.

② If unable to comply with climb gradient, advise ATC on initial contact.

SSN-RKSM**5-50****EGOBA 5****EGOBA 5**

RWYs 01 (010°) / 02 (016°) / 19 (190°) / 20 (196°)

| | | | | | | | |
|------|--------|------|------|------|------|------|------|
| | GS | 120 | 150 | 180 | 210 | 240 | 270 |
| 7.4% | ft/MIN | 900 | 1200 | 1400 | 1600 | 1800 | 2100 |
| 8.1% | ft/MIN | 1000 | 1300 | 1500 | 1800 | 2000 | 2300 |

| DESIGNATOR | ROUTING | ALTITUDES |
|---|--|--|
| | Runway 01 | |
| EGOBA 5 8.1% to 6000 123.800 ①⑤⑥ | HDG 023° - at D4 KSM (or D4 SOL) - RT HDG 160° - intercept R088 KSM to EGOBA | EGOBA MNM 6000 Initial climb 6000 |
| | Runway 02 | |
| EGOBA 5 8.1% to 6000 123.800 ②⑤⑥ | HDG 023° - at D4 KSM (or D4 SOL) - RT HDG 160° - intercept R088 KSM to EGOBA | EGOBA MNM 6000 Initial climb 6000 |
| | Runway 19 | |
| EGOBA 5 7.4% to 3000 123.800 ③⑤⑥ | HDG 190° - at D3 KSM (or D3 SOL) - LT HDG 050° - intercept R088 KSM to EGOBA | EGOBA MNM 6000 Initial climb 6000 |
| | Runway 20 | |
| EGOBA 5 7.4% to 3000 123.800 ④⑤⑥ | HDG 190° - at D3 KSM (or D3 SOL) - LT HDG 050° - intercept R088 KSM to EGOBA | EGOBA MNM 6000 Initial climb 6000 |

- ① Hills 3293ft from DER, 1382ft left of centerline, up to 237ft MSL / 169ft AGL. Hills 4183ft from DER, 1240ft left of centerline, up to 217ft MSL / 149ft AGL.
- ② Hills 3171ft from DER, 1584ft left of centerline, up to 237ft MSL / 169ft AGL. Hills 4051ft from DER, 1505ft left of centerline, up to 217ft MSL / 149ft AGL.
- ③ Hills 3842ft from DER, 522ft right of centerline, up to 187ft MSL / 110ft AGL. Hills 5981ft from DER, 341ft right of centerline, up to 277ft MSL / 200ft AGL. Hills 7535ft from DER, 2340ft right of centerline, up to 356ft MSL / 279ft AGL.
- ④ Hills 3092ft from DER, 1078ft right of centerline, up to 187ft MSL / 94ft AGL. Hills 5199ft from DER, 1494ft left of centerline, up to 277ft MSL / 184ft AGL. Hills 6962ft from DER, 321ft right of centerline, up to 356ft MSL / 263ft AGL.
- ⑤ When KSM and SOL N/A, turn at MNM 1000.
- ⑥ If unable to comply with climb gradient advise ATC on initial contact.

SSN-RKSM**5-60****RICOE 5****RICOE 5**

RWYs 01 (010°) / 02 (016°) / 19 (190°) / 20 (196°)

| | GS | 120 | 150 | 180 | 210 | 240 | 270 |
|------|--------|------|------|------|------|------|------|
| 7.4% | ft/MIN | 900 | 1200 | 1400 | 1600 | 1800 | 2100 |
| 8.1% | ft/MIN | 1000 | 1300 | 1500 | 1800 | 2000 | 2300 |

| DESIGNATOR | ROUTING | ALTITUDES |
|--|--|---|
| | Runway 01 | |
| RICOE 5 8.1% to 2700 123.800 ①③⑥ | HDG 023° - at D4 KSM (or D4 SOL) - RT HDG 190° - intercept R141 KSM to NOROO - expect radar vectors to RICOE or filed en-route fix | NOROO at 6000 Initial climb 6000 |
| | Runway 02 | |
| RICOE 5 8.1% to 2700 123.800 ②③⑥ | HDG 023° - at D4 KSM (or D4 SOL) - RT HDG 190° - intercept R141 KSM to NOROO - expect radar vectors to RICOE or filed en-route fix | NOROO at 6000 Initial climb 6000 |
| | Runway 19 | |
| RICOE 5 7.4% to 6000 123.800 ③④⑥ | HDG 190° - at D3 KSM (or D3 SOL) - LT HDG 090° - intercept R141 KSM to NOROO - expect radar vectors to RICOE or filed en-route fix | NOROO at 6000 Initial climb 6000 |
| | Runway 20 | |
| RICOE 5 7.4% to 6000 123.800 ③⑤⑥ | HDG 190° - at D3 KSM (or D3 SOL) - LT HDG 090° - intercept R141 KSM to NOROO - expect radar vectors to RICOE or filed en-route fix | NOROO at 6000 Initial climb 6000 |

- ① Hills 3293ft from DER, 1382ft left of centerline, up to 237ft MSL / 169ft AGL. Hills 4183ft from DER, 1240ft left of centerline, up to 217ft MSL / 149ft AGL.
- ② Hills 3171ft from DER, 1584ft left of centerline, up to 237ft MSL / 169ft AGL. Hills 4051ft from DER, 1505ft left of centerline, up to 217ft MSL / 149ft AGL.
- ③ When KSM and SOL N/A, turn at MNM 1000.
- ④ Hills 3842ft from DER, 522ft right of centerline, up to 187ft MSL / 110ft AGL. Hills 5981ft from DER, 341ft right of centerline, up to 277ft MSL / 200ft AGL. Hills 7535ft from DER, 2340ft right of centerline, up to 356ft MSL / 279ft AGL.
- ⑤ Hills 3092ft from DER, 1078ft right of centerline, up to 187ft MSL / 94ft AGL. Hills 5199ft from DER, 1494ft left of centerline, up to 277ft MSL / 184ft AGL. Hills 6962ft from DER, 321ft right of centerline, up to 356ft MSL / 263ft AGL.
- ⑥ If unable to comply with climb gradient advise ATC on initial contact.

14-DEC-2017

SSN-RKSM**5-70****SEOUL 1**

SIDPT

SEOUL 1

RWYs 01 (010°) / 02 (016°)

| | GS | 120 | 150 | 180 | 210 | 240 | 270 |
|--|------|--------|-----|------|------|------|------|
| | 6.4% | ft/MIN | 800 | 1000 | 1200 | 1400 | 1600 |

| DESIGNATOR | ROUTING | ALTITUDES |
|--|---|---------------------------|
| | Runway 01 | |
| SEOUL 1 6.4% to 5200 123.800 ①③ | HDG 023° - at MNM 1000 RT HDG 090° to MNM 5000 TRANSITION ANYANG (SEL) at MNM 5000 RT direct SEL and climb to assigned ALT KARBU at MNM 5000 RT HDG 150° - LT join AWY G597 (R087 SEL) to KARBU and climb to assigned ALT RICOE expect radar vectors to RICOE | initial climb 5000 |
| | Runway 02 | |
| SEOUL 1 6.4% to 5200 123.800 ②③ | HDG 023° - at MNM 1000 RT HDG 090° to MNM 5000 TRANSITION ANYANG (SEL) at MNM 5000 RT direct SEL and climb to assigned ALT KARBU at MNM 5000 RT HDG 150° - LT join AWY G597 (R087 SEL) to KARBU and climb to assigned ALT RICOE expect radar vectors to RICOE | initial climb 5000 |

- ① Hills 3293ft from DER, 1382ft left of centerline, up to 237ft MSL / 169ft AGL. Hills 4183ft from DER, 1240ft left of centerline, up to 217ft MSL / 149ft AGL.
- ② Hills 3171ft from DER, 1584ft left of centerline, up to 237ft MSL / 169ft AGL. Hills 4051ft from DER, 1505ft left of centerline, up to 217ft MSL / 149ft AGL.
- ③ If unable to comply with climb gradient advise ATC on initial contact.

SSN-RKSM**5-80****SEOUL 2****SEOUL 2**

RWYs 01 (010°) / 02 (016°)

| | GS | 120 | 150 | 180 | 210 | 240 | 270 |
|------|--------|------|------|------|------|------|------|
| 8.1% | ft/MIN | 1000 | 1300 | 1500 | 1800 | 2000 | 2300 |

| DESIGNATOR | ROUTING | ALTITUDES |
|---|---|--|
| | Runway 01 | |
| SEOUL 2 8.1% to 5500 123.800 ①③④ | HDG 023° - at D4 KSM (or D4 SOL) RT HDG 100° - intercept R060 KSM to D15 KSM | R060/D15 KSM between 5500 and 6500 initial climb 5500 |
| | TRANSITION | |
| | ANYANG (SEL) join D15 KSM/SOL arc - RT join AWY G597 to SEL and climb to assigned ALT | |
| | KARBU join D15 KSM/SOL arc - LT join AWY G597 (R087 SEL) to KARBU and climb to assigned ALT | |
| | RICOE expect radar vectors to RICOE | |
| | Runway 02 | |
| SEOUL 2 8.1% to 5500 123.800 ②③④ | HDG 023° - at D4 KSM (or D4 SOL) RT HDG 100° - intercept R060 KSM to D15 KSM | R060/D15 KSM between 5500 and 6500 initial climb 5500 |
| | TRANSITION | |
| | ANYANG (SEL) join D15 KSM/SOL arc - RT join AWY G597 to SEL and climb to assigned ALT | |
| | KARBU join D15 KSM/SOL arc - LT join AWY G597 (R087 SEL) to KARBU and climb to assigned ALT | |
| | RICOE expect radar vectors to RICOE | |

- ① Hills 3293ft from DER, 1382ft left of centerline, up to 237ft MSL / 169 AGL. Hills 4183ft from DER, 1240ft left of centerline, up to 217ft MSL / 149 AGL.
- ② Hills 3171ft from DER, 1584ft left of centerline, up to 237ft MSL / 169 AGL. Hills 4051ft from DER, 1505ft left of centerline, up to 217ft MSL / 149 AGL.
- ③ If unable to comply with climb gradient advise ATC on initial contact.
- ④ When KSM or SOL N/A, turn at MNM 1000

SSN-RKSM**5-90****SEOUL 2****SEOUL 2**

RWYs 19 (190°) / 20 (196°)

| | | | | | | | |
|------|--------|-----|------|------|------|------|------|
| | GS | 120 | 150 | 180 | 210 | 240 | 270 |
| 7.4% | ft/MIN | 900 | 1200 | 1400 | 1600 | 1800 | 2100 |

| DESIGNATOR | ROUTING | ALTITUDES |
|---|--|---|
| | Runway 19 | |
| SEOUL 2 7.4% to 3000 123.800 ①③④ | HDG 190° - at D3 KSM (or D3 SOL) - LT HDG 020° - intercept R060 KSM to D15 KSM | R100 KSM between 3000 and 4000 R060/D15 KSM between 5500 and 6500 Initial climb 5500 |
| | TRANSITION | |
| | ANYANG (SEL) join D15 KSM/SOL arc - RT join AWY G597 to SEL and climb to assigned ALT | |
| | KARBU join D15 KSM/SOL arc - LT join AWY G597 (R087 SEL) to KARBU and climb to assigned ALT | |
| | RICOE expect radar vectors to RICOE | |
| | Runway 20 | |
| SEOUL 2 7.4% to 3000 123.800 ②③④ | HDG 190° - at D3 KSM (or D3 SOL) - LT HDG 020° - intercept R060 KSM to D15 KSM | R100 KSM between 3000 and 4000 R060/D15 KSM between 5500 and 6500 Initial climb 5500 |
| | TRANSITION | |
| | ANYANG (SEL) join D15 KSM/SOL arc - RT join AWY G597 to SEL and climb to assigned ALT | |

- ① Hills 3842ft from DER, 522ft right of centerline, up to 187ft MSL / 110 AGL. Hills 5981ft from DER, 341ft right of centerline, up to 277ft MSL / 200 AGL. Hills 7535ft from DER, 2340ft right of centerline, up to 356ft MSL / 279 AGL.
- ② Hills 3092ft from DER, 1078ft right of centerline, up to 187ft MSL / 94 AGL. Hills 5199ft from DER, 1494ft left of centerline, up to 277ft MSL / 184 AGL. Hills 6962ft from DER, 321ft right of centerline, up to 356ft MSL / 263 AGL.
- ③ If unable to comply with climb gradient advise ATC on initial contact.
- ④ When KSM or SOL N/A, turn at MNM 1000

SSN-RKSM

5-100

SEOUL 2

SEOUL 2

RWY 20 (196°)

| | | | | | | | |
|------|--------|-----|------|------|------|------|------|
| | GS | 120 | 150 | 180 | 210 | 240 | 270 |
| 7.4% | ft/MIN | 900 | 1200 | 1400 | 1600 | 1800 | 2100 |

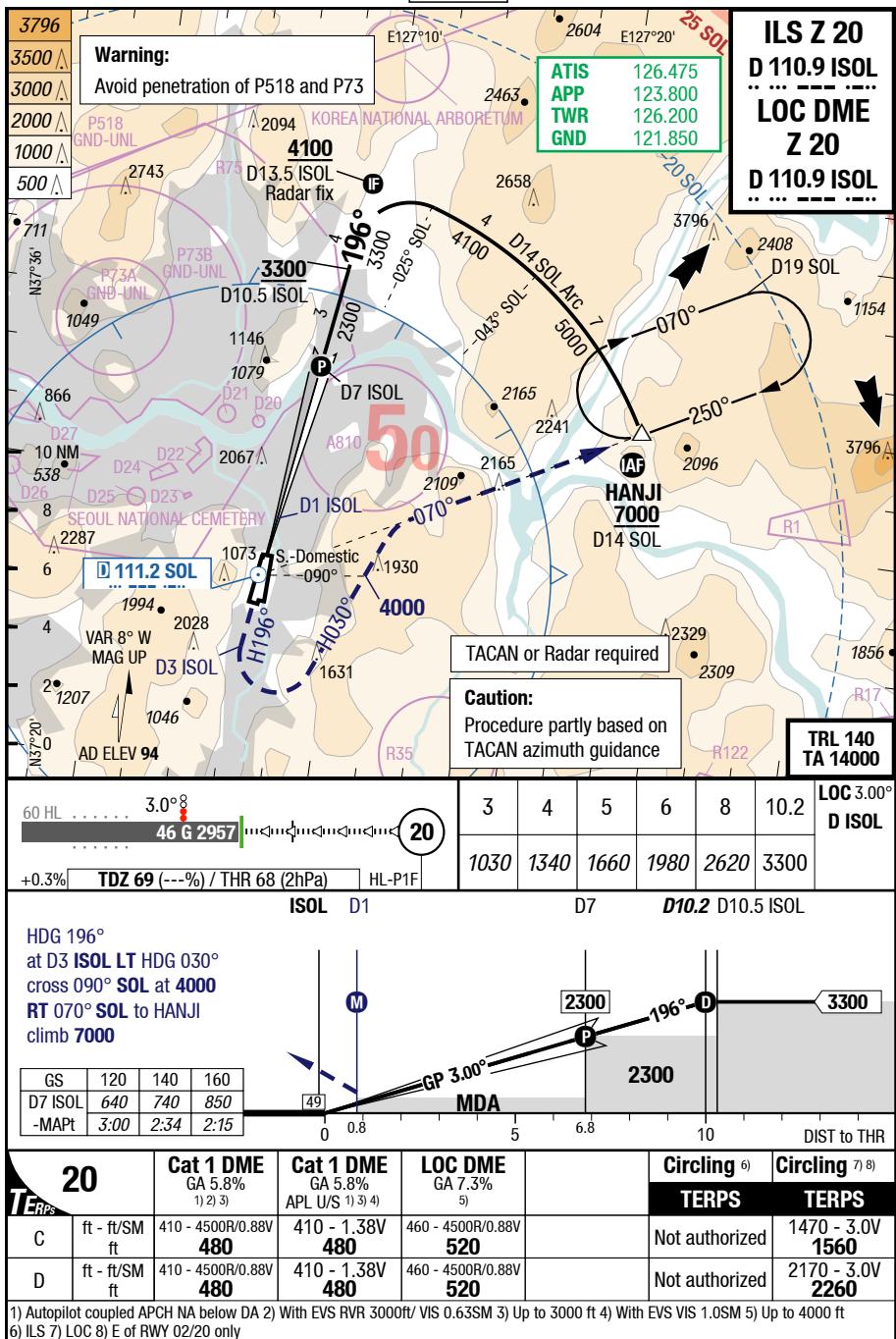
| DESIGNATOR | ROUTING | ALTITUDES |
|---|---|-----------|
| | Runway 20 | |
| SEOUL 2 7.4% to 3000 123.800 ①②③ | TRANSITION | |
| KARBU | join D15 KSM/SOL arc - LT join AWY G597 (R087 SEL) to KARBU and climb to assigned ALT | |
| RICOE | expect radar vectors to RICOE | |

- ① Hills 3092ft from DER, 1078ft right of centerline, up to 187ft MSL / 94 AGL. Hills 5199ft from DER, 1494ft left of centerline, up to 277ft MSL / 184 AGL. Hills 6962ft from DER, 321ft right of centerline, up to 356ft MSL / 263 AGL.
- ② If unable to comply with climb gradient advise ATC on initial contact.
- ③ When KSM or SOL N/A, turn at MNM 1000

SSN-RKSM

7-10

ILS Z 20 / LOC DME Z 20

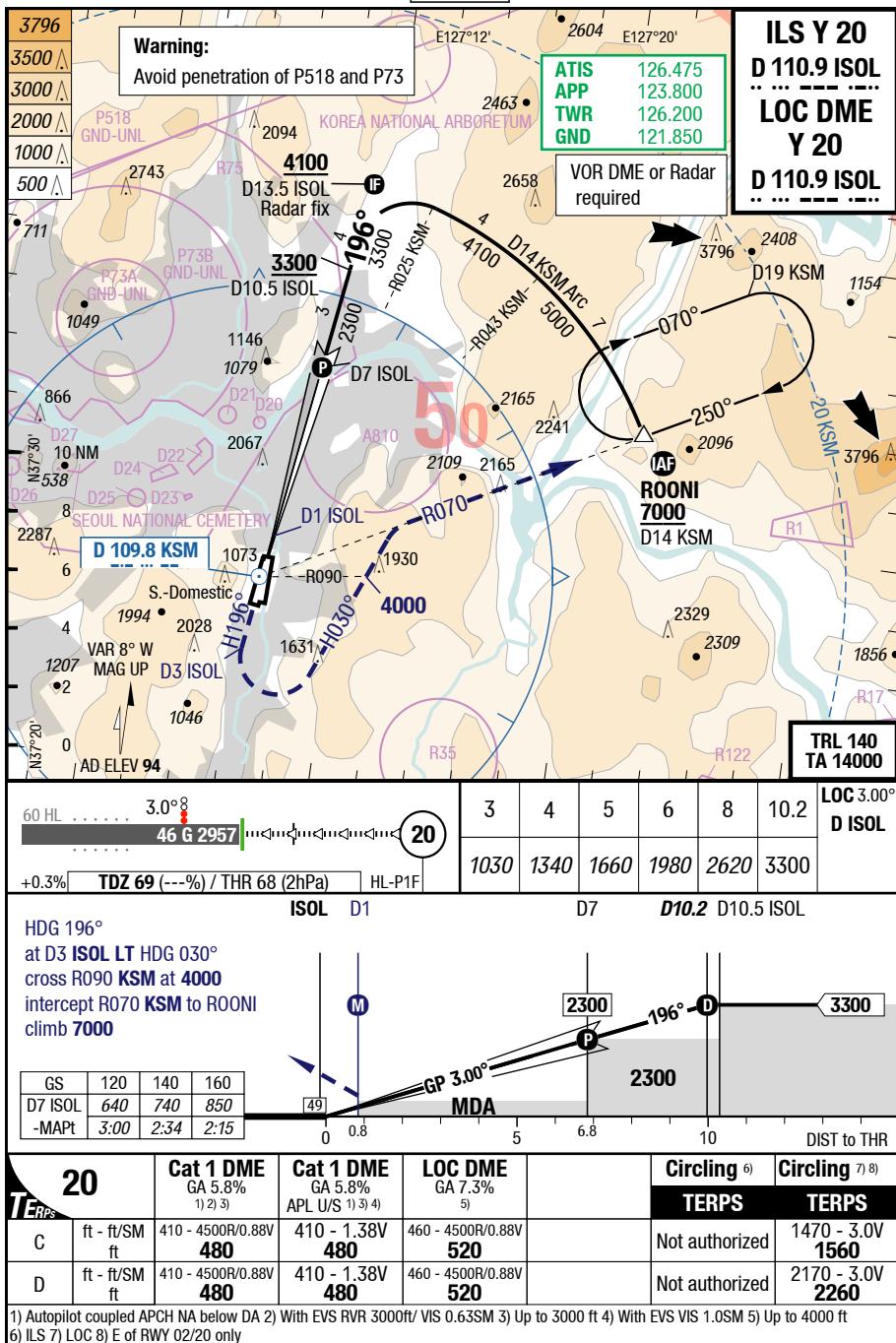


Changes: MIN, ALT, Track, APL, Profile, HLDG

SSN-RKSM

7-20

ILS Y 20 / LOC DME Y 20

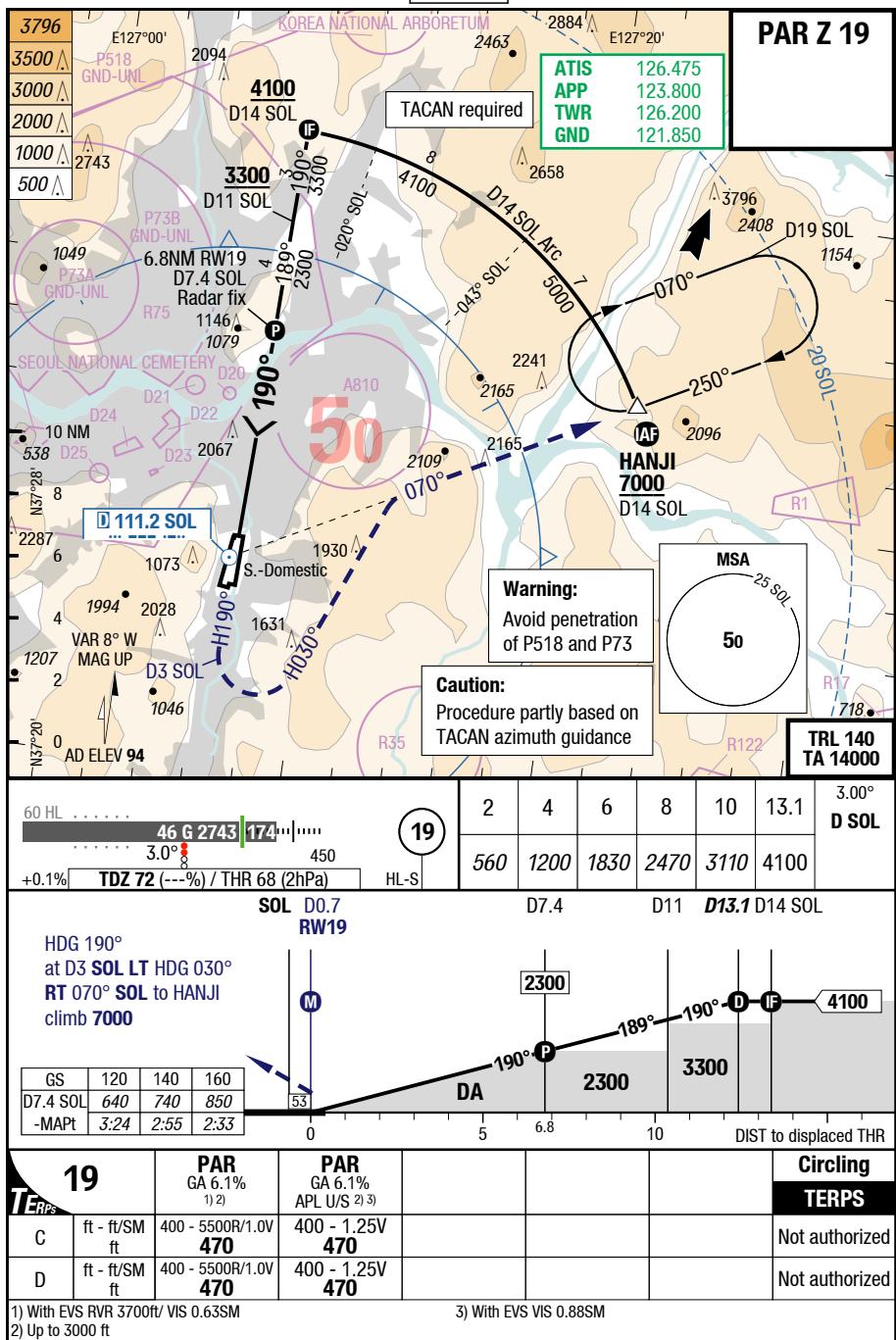


Changes: MIN, ALT, APL, Profile, OBST

SSN-RKSM

7-30

PAR Z 19



Changes: MIN, ALT, OBST, Track, APL, Profile

Effective 09-NOV-2017

02-NOV-2017

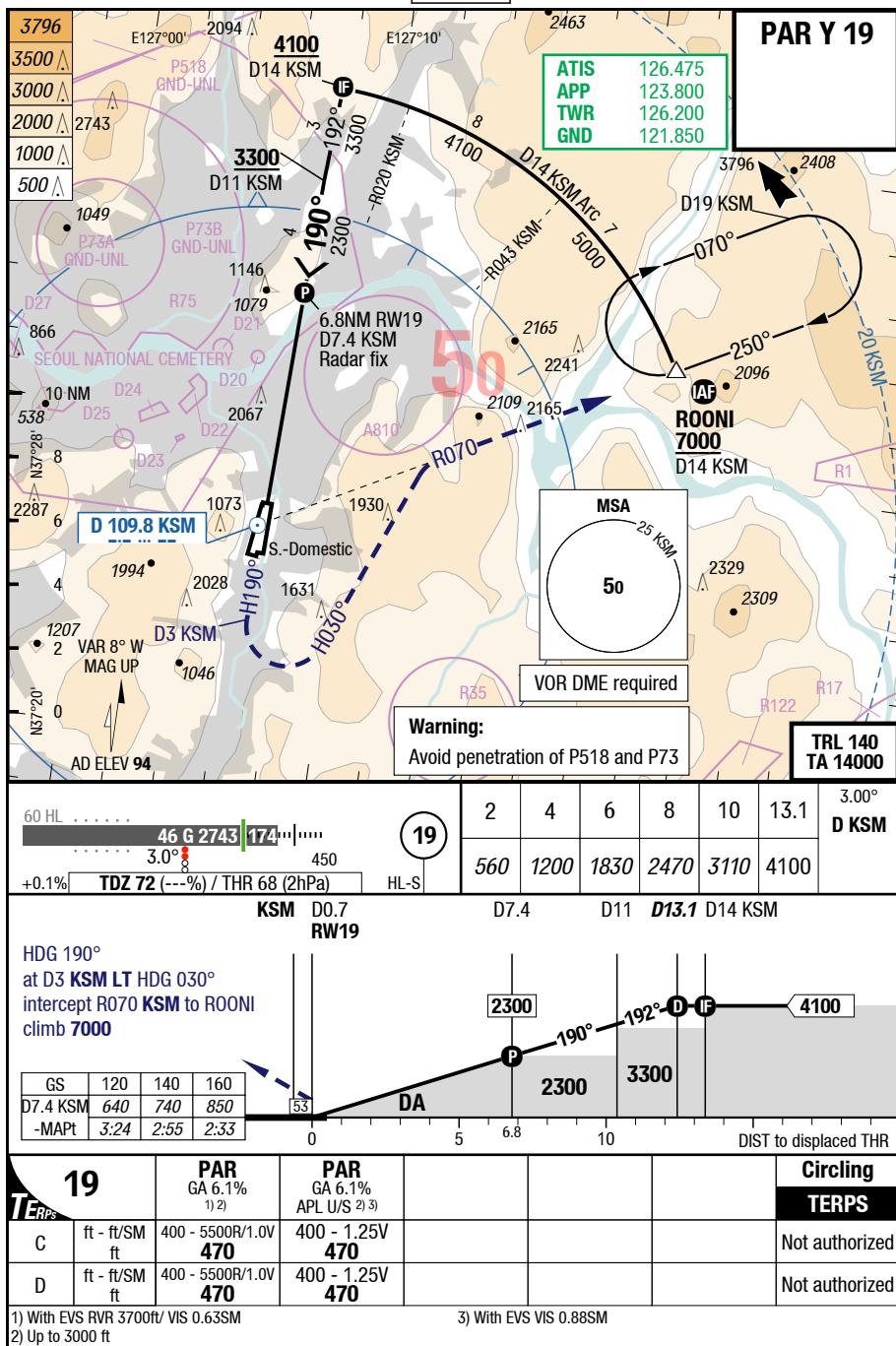
Korea, Republic of Seoul Seoul Domestic

IAC

SSN-RKSM

7-40

PAR Y 19

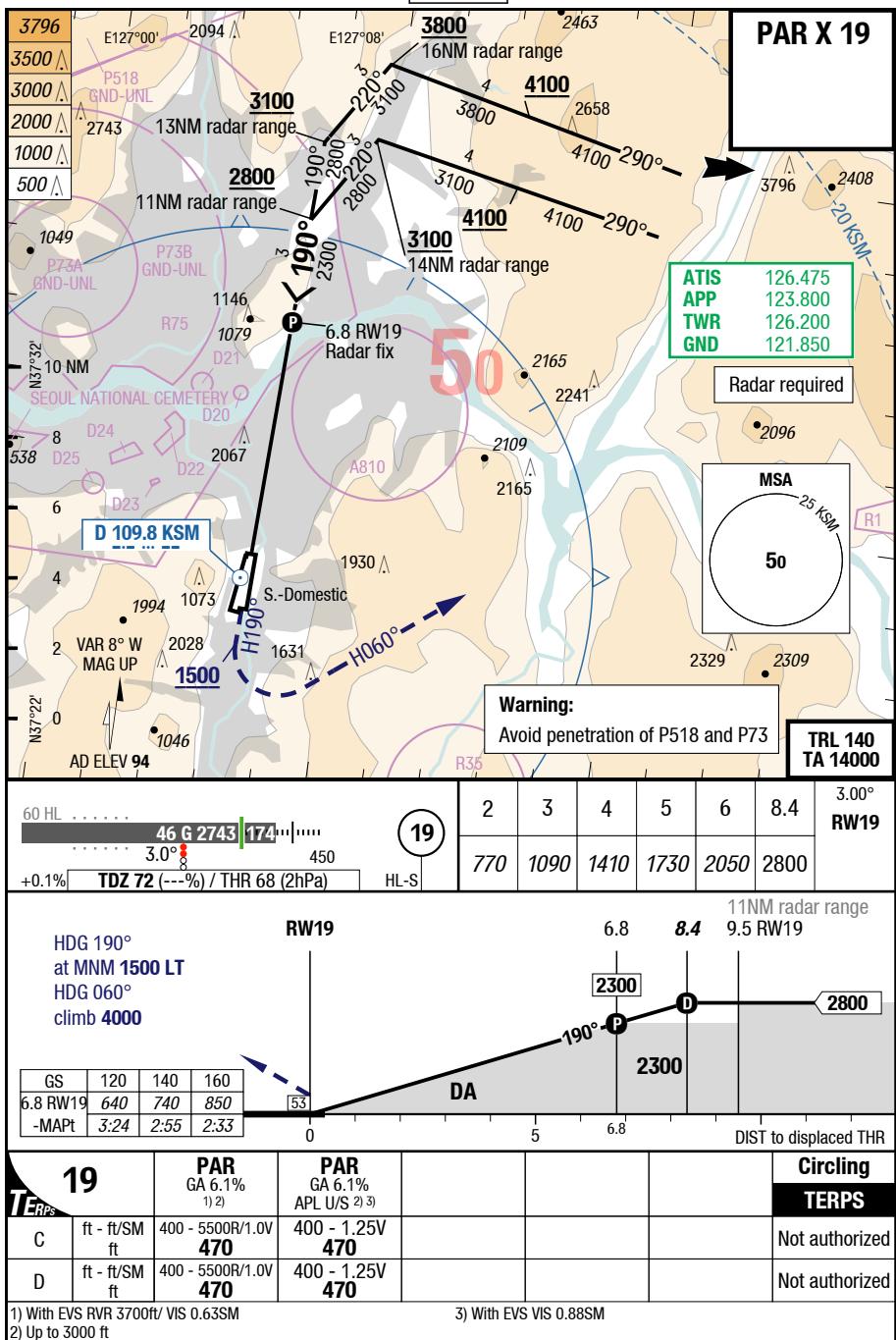


Changes: MIN, ALT, APL, OBST, Profile

SSN-RKSM

7-50

PAR X 19



Changes: Completely revised

Effective 09-NOV-2017

02-NOV-2017

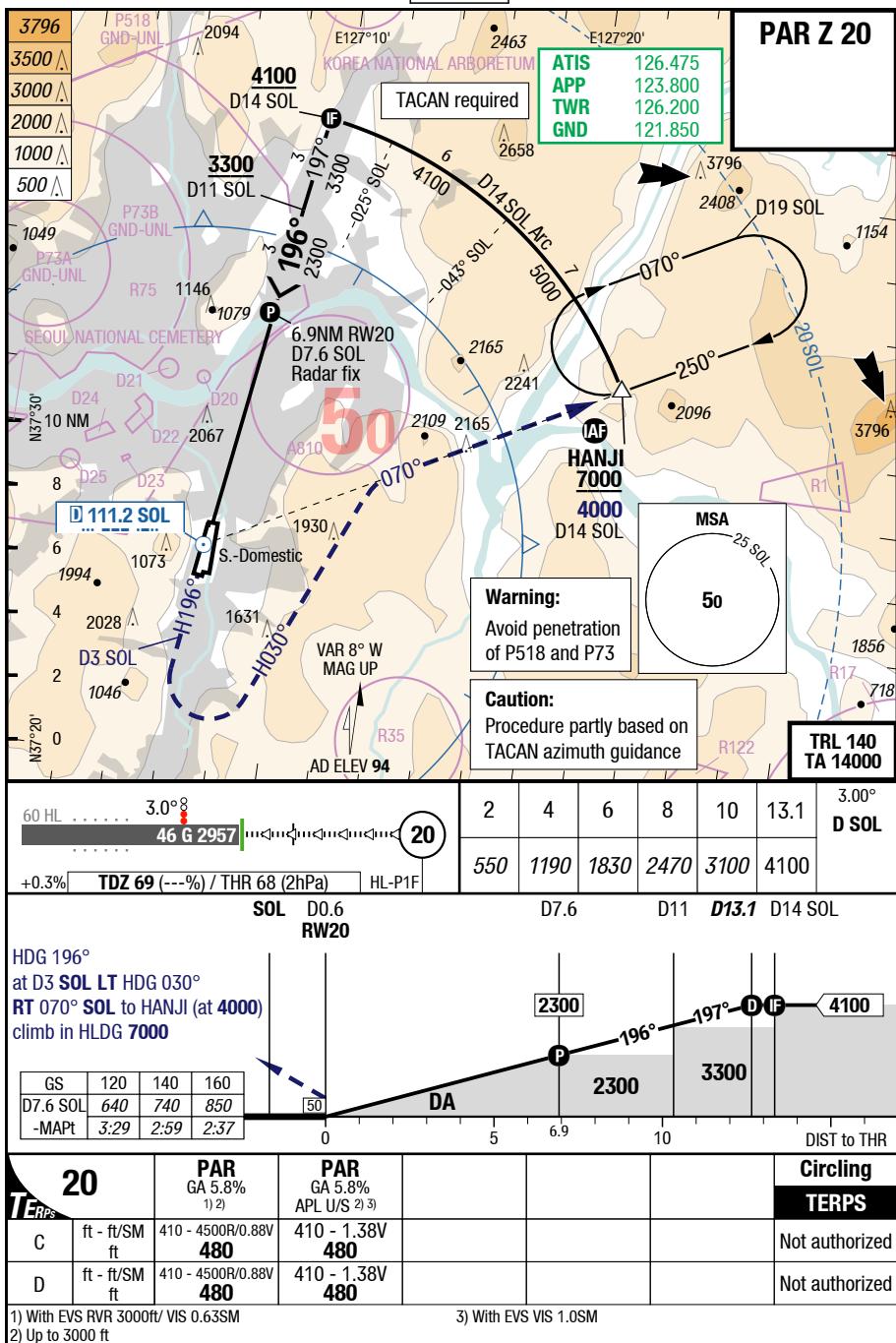
Korea, Republic of Seoul Seoul Domestic

IAC

SSN-RKSM

7-60

PAR Z 20

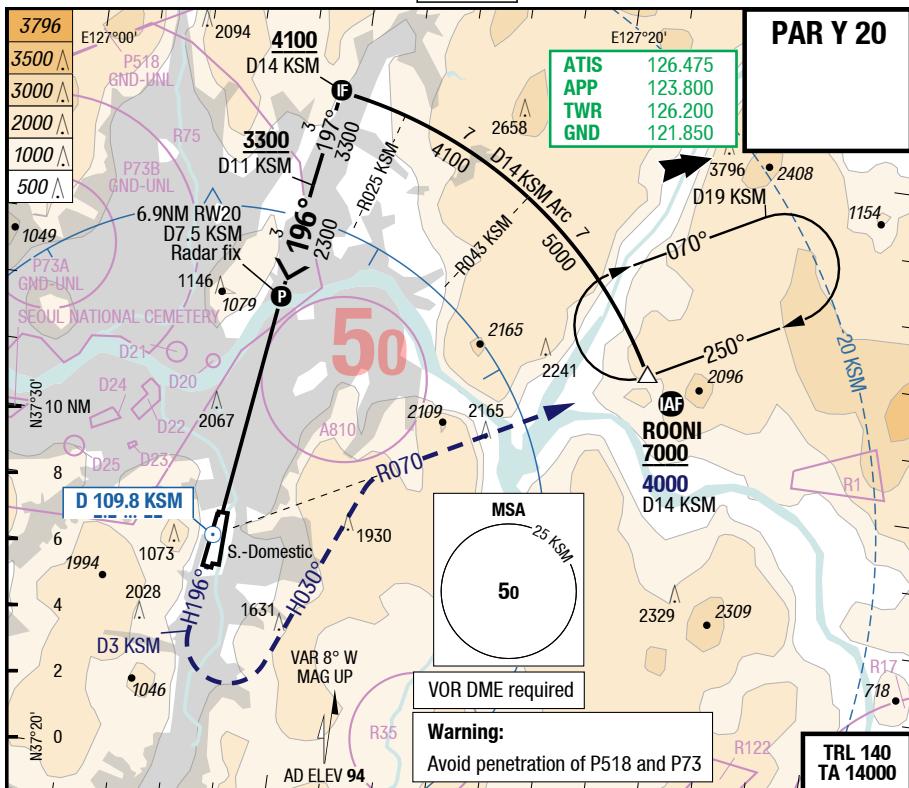


Changes: MIN, ALT, APL, OBST, Profile

SSN-RKSM

7-70

PAR Y 20



| | | | | | | | | | | |
|-------------|-------------------------------|-----------|----|-----|------|------|------|------|------|----------------|
| 60 HL | 3.0° ⁸ | 46 G 2957 | 20 | 2 | 4 | 6 | 8 | 10 | 13.1 | 3.00° D KSM |
| +0.3% | TDZ 69 (---%) / THR 68 (2hPa) | HL-P1F | | 550 | 1190 | 1850 | 2460 | 3100 | 4100 | |

KSM D0.6 RW20 D7.5 D11 D13.1 D14 KSM

HDG 196°

at D3 KSM LT HDG 030°
intersect R070 KSM
to ROONI (at 4000)
climb in HDLG 7000

| GS | 120 | 140 | 160 | 50 | DA | 2300 | 196° D IF 4100 | DIST to THR |
|----------|------|------|------|----|----|------|----------------|-------------|
| D7.5 KSM | 640 | 740 | 850 | | | | | |
| -MAPt | 3.26 | 2.56 | 2.34 | | | | | |

| 20 | | PAR GA 5.8% 1) 2) | PAR GA 5.8% APL U/S 2) 3) | Circling TERPS | | | |
|----|------------|--------------------------|------------------------------|-------------------|--|--|----------------|
| C | ft - ft/SM | 410 - 4500R/0.88V 480 | 410 - 1.38V 480 | | | | Not authorized |
| D | ft - ft/SM | 410 - 4500R/0.88V 480 | 410 - 1.38V 480 | | | | Not authorized |

1) With EVS RVR 3000ft/ VIS 0.63SM
2) Up to 3000 ft
3) With EVS VIS 1.0SM

Changes: MIN, ALT, Track, APL, Profile, OBST

Effective 09-NOV-2017

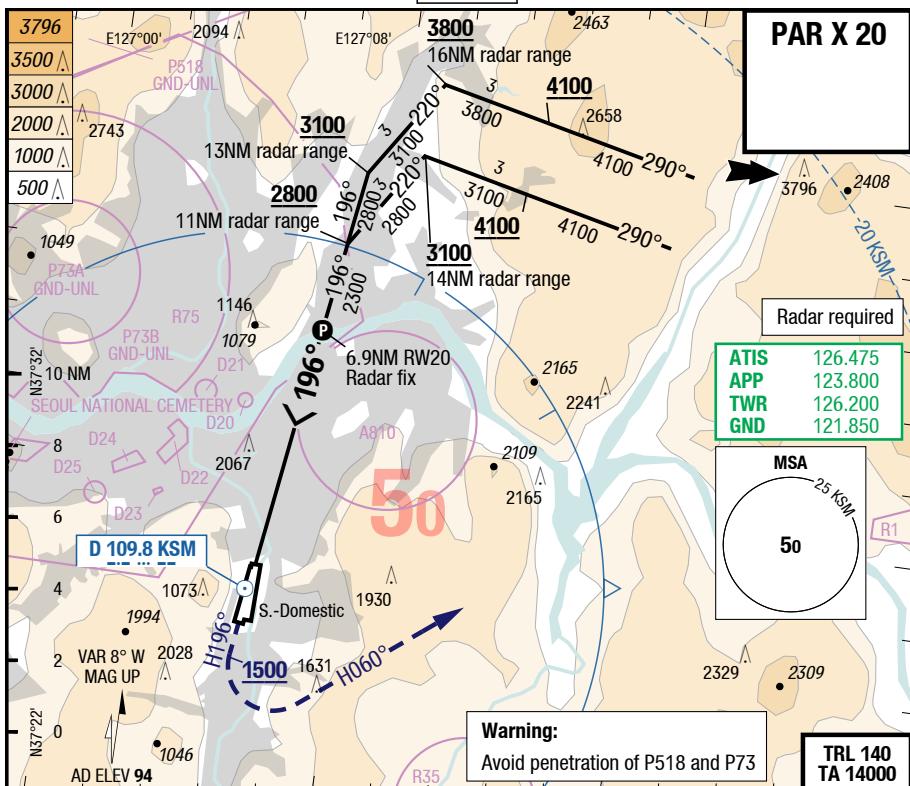
02-NOV-2017

Korea, Republic of Seoul Seoul Domestic

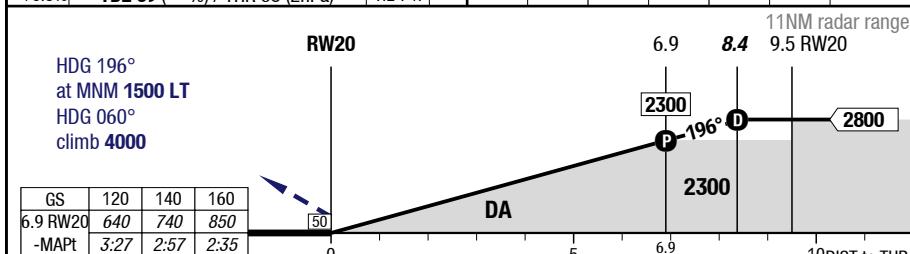
IAC

SSN-RKSM

7-80

PAR X 20

| 60 HL | 3.0° 8 | 46 G 2957 | 20 | 2 | 3 | 4 | 5 | 6 | 8.4 | 3.00° RW20 |
|-------|-------------------------------|-----------|----|-----|------|------|------|------|------|------------|
| +0.3% | TDZ 69 (---%) / THR 68 (2hPa) | HL-P1F | | 750 | 1070 | 1390 | 1700 | 2020 | 2800 | |



| 20 | | PAR GA 5.8% 1) 2) | PAR GA 5.8% APL U/S 2) 3) | | | | | Circling |
|----|------------------|---------------------------------|------------------------------|--|--|--|--|----------------|
| C | ft - ft/SM ft | 410 - 4500R/0.88V 480 | 410 - 1.38V 480 | | | | | Not authorized |
| D | ft - ft/SM ft | 410 - 4500R/0.88V 480 | 410 - 1.38V 480 | | | | | Not authorized |

1) With EVS RVR 3000ft/ VIS 0.63SM
2) Up to 3000 ft
3) With EVS VIS 1.0SM

Changes: Completely revised

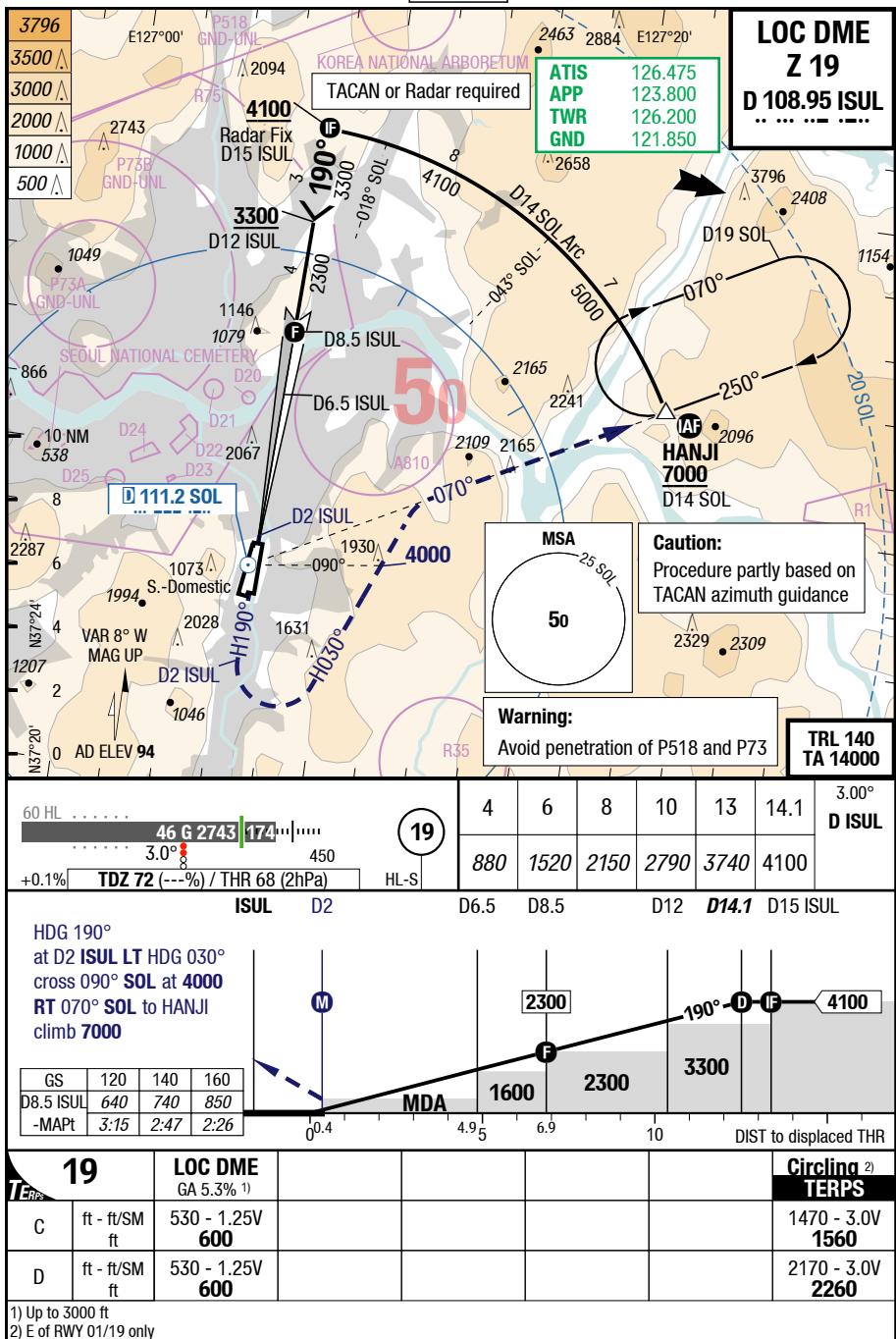
07-DEC-2017

SSN-RKSM

7-90

LOC DME Z 19

IAC



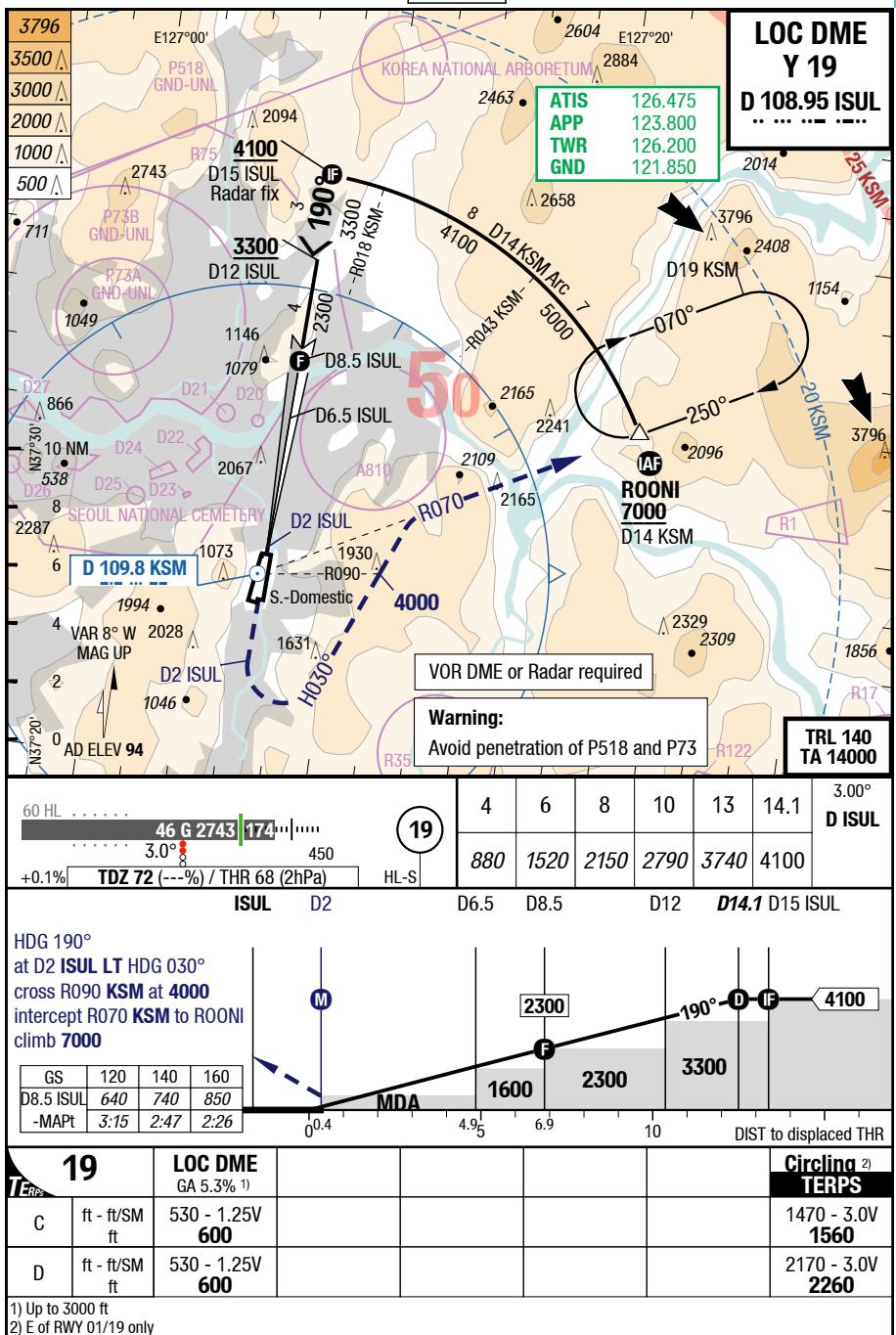
Changes: Nil

07-DEC-2017

SSN-RKSM

7-100

LOC DME Y 19



Changes: MIN

Effective 09-NOV-2017

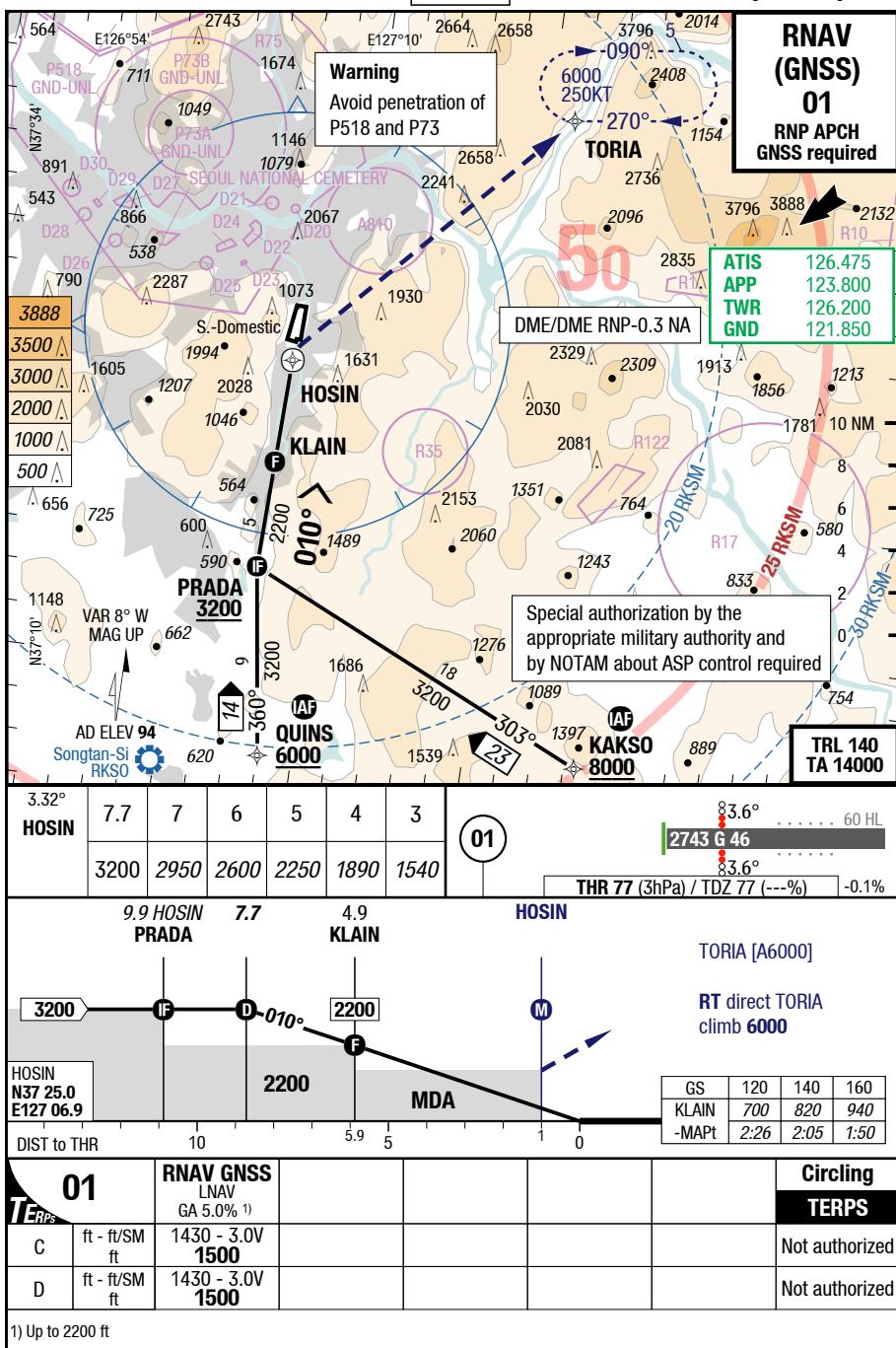
02-NOV-2017

Korea, Republic of Seoul Seoul Domestic

SSN-RKSM

7-110

RNAV (GNSS) 01



Changes: APL

Effective 09-NOV-2017

02-NOV-2017

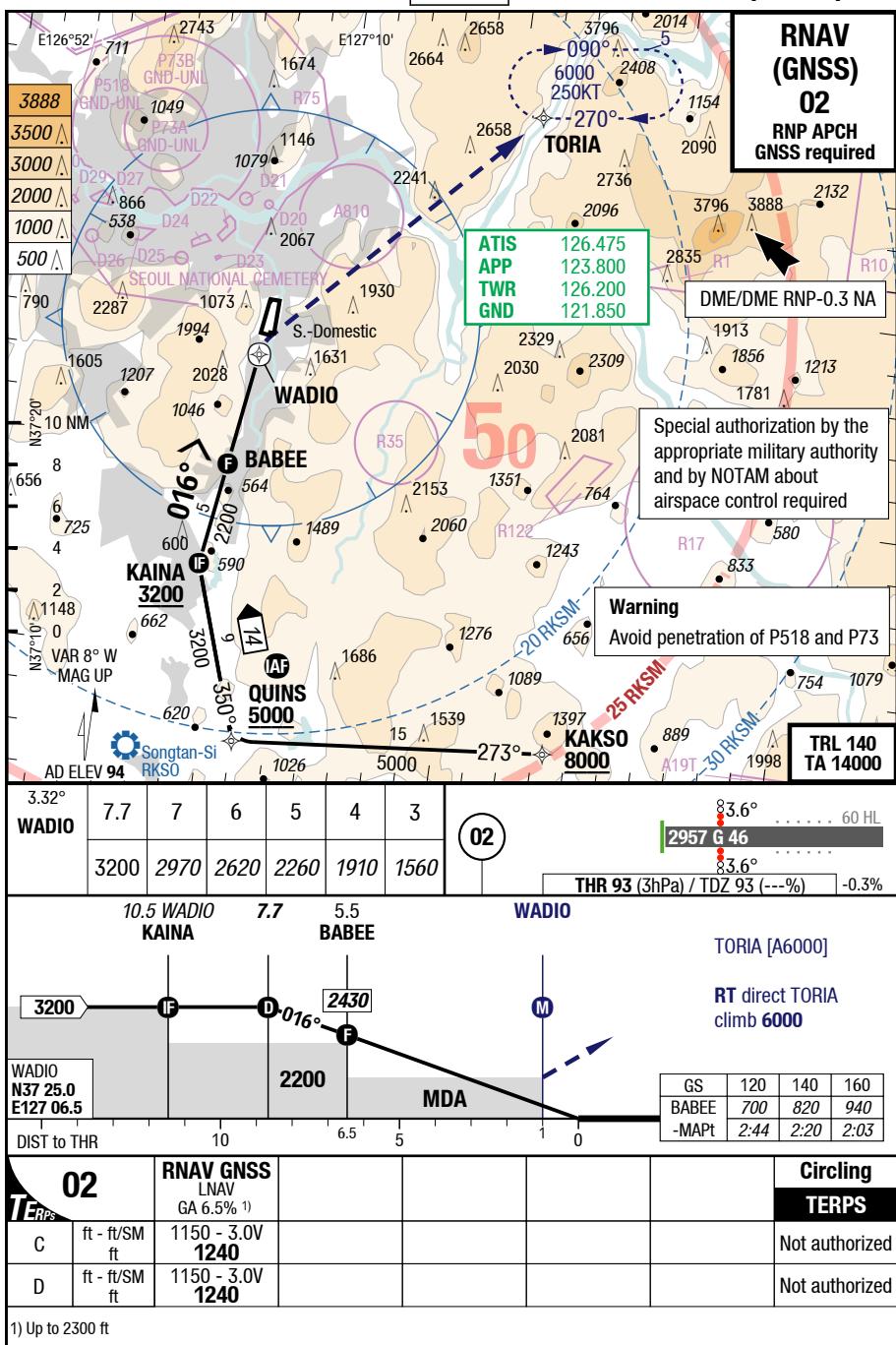
Korea, Republic of Seoul Seoul Domestic

SSN-RKSM

7-120

RNAV (GNSS) 02

IAC

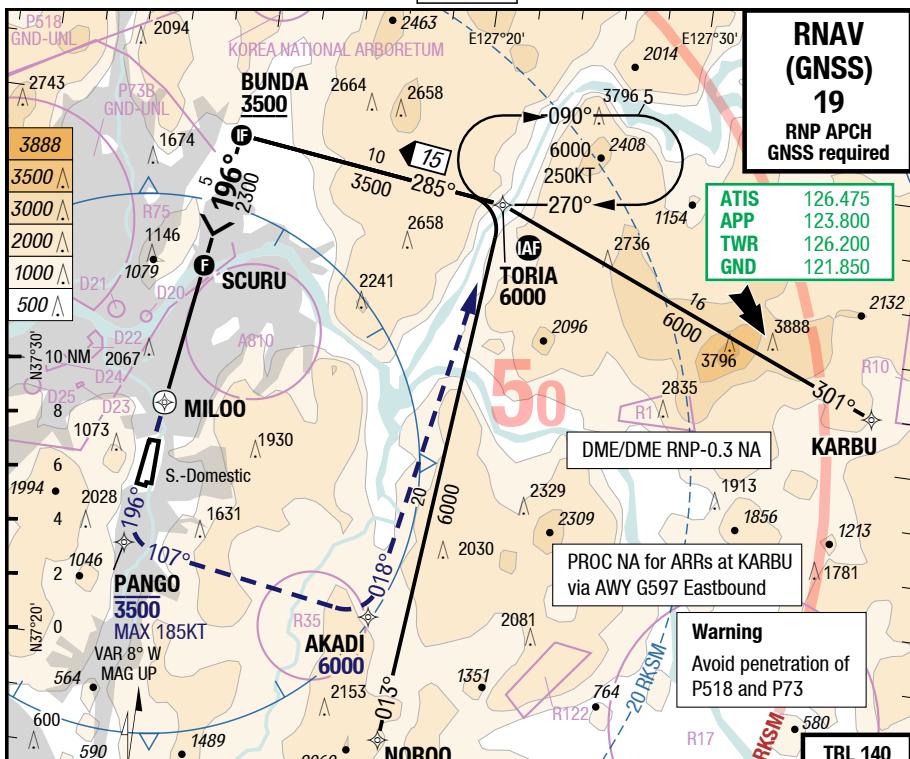


Changes: APL

SSN-RKSM

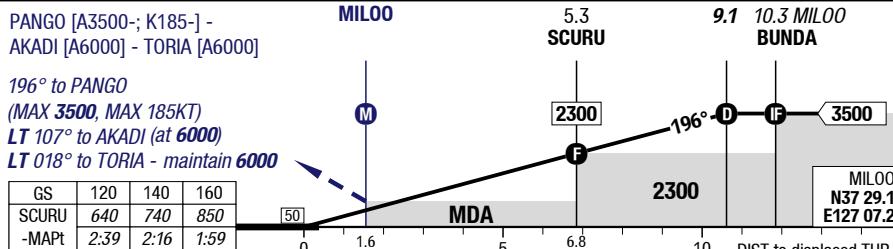
7-130

RNAV (GNSS) 19



| 60 HL | 46 G 2743 174 | 19 | 2 | 3 | 4 | 6 | 7 | 9.1 | 3.00° |
|-------------|-----------------------|----|------|------|------|------|------|------|-------|
| | | | 1260 | 1570 | 1890 | 2530 | 2850 | 3500 | MILOO |
| 3.0 ° 8 | 450 | | 1260 | 1570 | 1890 | 2530 | 2850 | 3500 | 196° |

+0.1% TDZ 72 (---%) / THR 68 (2hPa) HL-S RWY 190°



| 19 | | RNAV GNSS VNAV GA 6.5% (2) 3) 4) | RNAV GNSS LNAV GA 6.5% 4) | | | | | Circling TERPS |
|----|------------|----------------------------------|---------------------------|--|--|--|--|----------------------------|
| C | ft - ft/SM | 640 - 2.5V 720 | 790 - 2.5V 860 | | | | | 1470 - 3.0V 1560 |
| D | ft - ft/SM | 640 - 2.5V 720 | 790 - 2.5V 860 | | | | | 2170 - 3.0V 2260 |

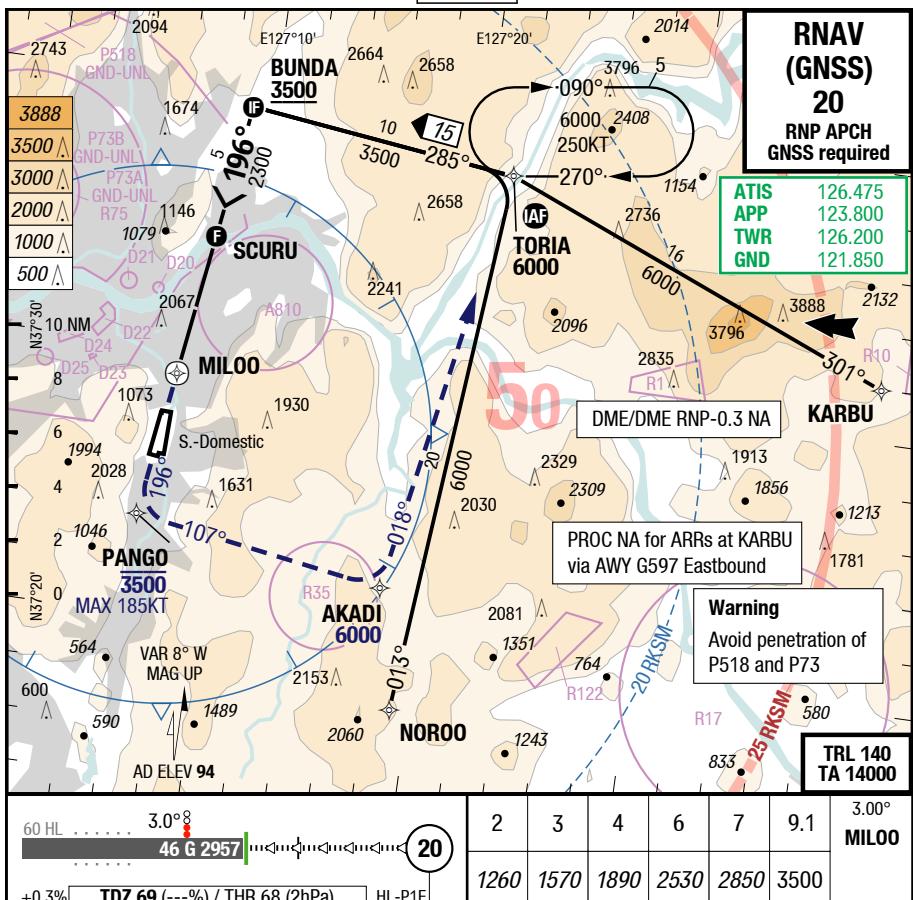
1) Uncompensated BARO VNAV NA below -19°C (-2°F)
2) SBAS-VNAV not authorized
3) With EVS VIS 1.66SM
4) Up to 3000 ft

Changes: MIN, APL

SSN-RKSM

7-140

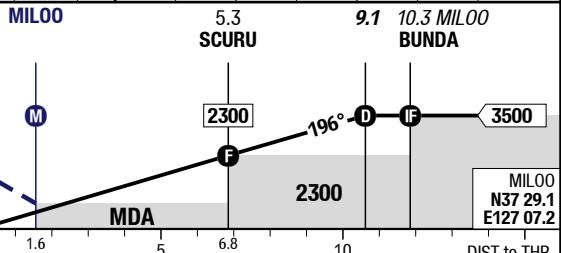
RNAV (GNSS) 20



PANGO [A3500-; K185-] -
AKADI [A6000] - TORIA [A6000]

196° to PANGO
(MAX 3500, MAX 185KT)
LT 107° to AKADI (at 6000)
LT 018° to TORIA - maintain 6000

| GS | 120 | 140 | 160 |
|-------|------|------|------|
| SCURU | 640 | 740 | 850 |
| -MAPt | 2.39 | 2.16 | 1.59 |



| 20 | | RNAV GNSS VNAV GA 6.5% 3) 4) | RNAV GNSS LNAV GA 6.5% 4) | | | | | Circling |
|----|------------------|------------------------------------|---------------------------------|--|--|--|--|----------------------------|
| C | ft - ft/SM ft | 650 - 2.5V 720 | 800 - 2.5V 860 | | | | | 1470 - 3.0V 1560 |
| D | ft - ft/SM ft | 650 - 2.5V 720 | 800 - 2.5V 860 | | | | | 2170 - 3.0V 2260 |

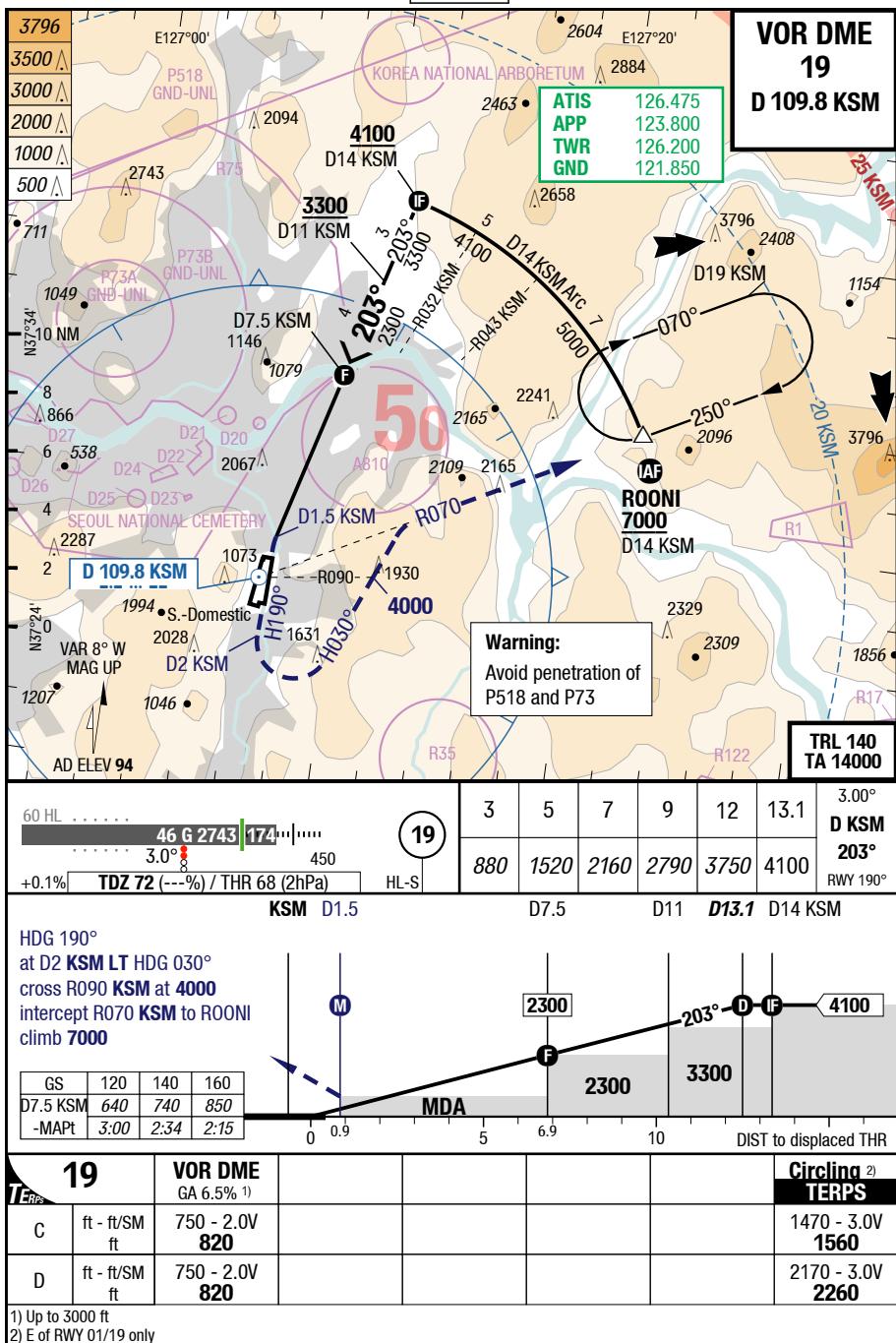
1) Uncompensated BARO VNAV NA below -19°C (-2°F)
2) SBAS-VNAV not authorized
3) With EVS VIS 1.66SM
4) Up to 3000 ft

Changes: MIN, APL

Effective 09-NOV-2017

02-NOV-2017

Korea, Republic of Seoul Seoul Domestic

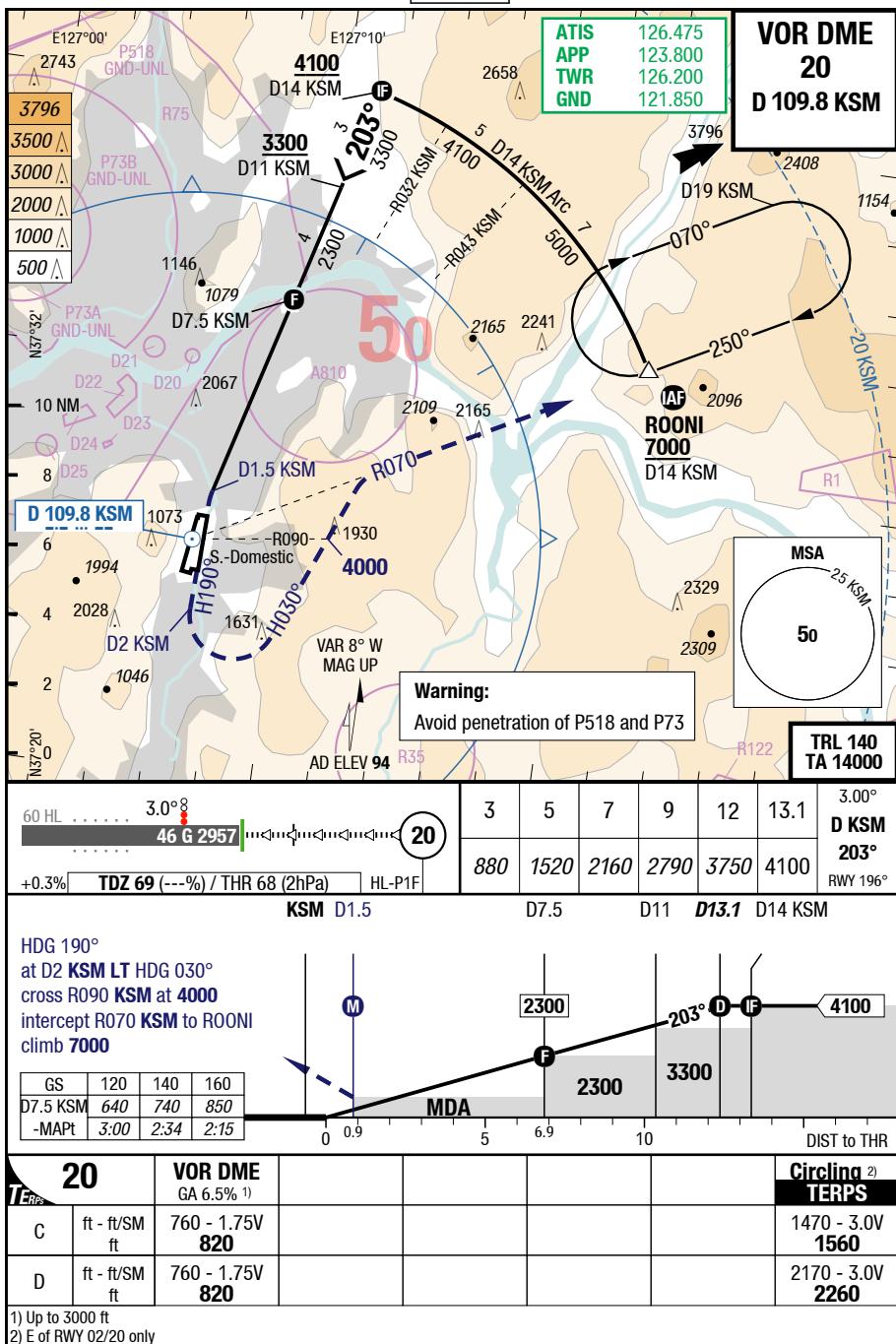
SSN-RKSM**7-150****VOR DME 19**

Changes: Completely revised

SSN-RKSM

7-160

VOR DME 20



Changes: MIN, ALT, Track, APL, Profile, OBST