

21-JUN-2018

DLC-ZYTL**1-10****AOI****AOI****GENERAL****Operational Hours****ATS Hours / AD OPS Hours / AD ADMIN Hours:** HS or O/R**Airport Information****RFF:** CAT 8**Fuel:** Nr.3 Jet fuel**PCN:** RWY 10/28: 68/F/B/W/T**Operation****Taxi:** MAX speed for taxiing is 16KT.**Warnings****FC NDB unusable:**

On bearing 107° beyond 7NM.

On bearing 190° between 3-5NM.

On bearing 260° between 1-3NM.

On bearings 139°, 163°, 251°.

Birds in vicinity of AD.

ARRIVAL**Speed**

MAX IAS 280KT (520km/h) from FL100 / 3000m up to FL197 / 6000m.

MAX IAS 250KT (460km/h) below FL100 / 3000m.

Arrival Procedure**VFR Traffic Pattern**

Traffic circuits shall be made on both sides of RWY; ALT 600m / 1969ft CAT A, ALT 900m / 2953ft CAT B/C/D.

Non-standard GP intercept position on**RWY 10**

GP intercepts RWY 10 at 312m / 1023ft after landing threshold.

Remaining DIST beyond GP is 2788m / 9148ft.

RWY 28

GP intercepts RWY 28 at 326m / 1069ft after landing threshold.

Remaining DIST beyond GP is 2874m / 9430ft.

21-JUN-2018

DLC-ZYTL**1-20****AOI****DEPARTURE****Take-off Minima**

RWY		10	
Multi ENG	ft - m/km	0 - 500R	REDL, RCLL, HJ only
		0 - 600R	REDL or RCLL, HJ only
		0 - 800R	REDL or RCLL, HN
		0 - 1.6V	wo LGT, HJ only
		0 - 800V	

RWY		28	
Multi ENG	ft - m/km	0 - 500R	REDL, RCLL, HJ only
		0 - 600R	REDL or RCLL, HJ only
		0 - 800R	REDL or RCLL, HN
		0 - 1.6V	wo LGT, HJ only
		0 - 800V	
		c920 - 5.0V	SID: If climb gradient less than 5.5%

Speed

MAX IAS 280KT (520km/h) from FL100 / 3000m up to FL197 / 6000m.

MAX IAS 250KT (460km/h) below FL100 / 3000m.

De-Icing

AVBL HS or O/R.

Effective 13-SEP-2018

06-SEP-2018

DLC-ZYTL

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AGC

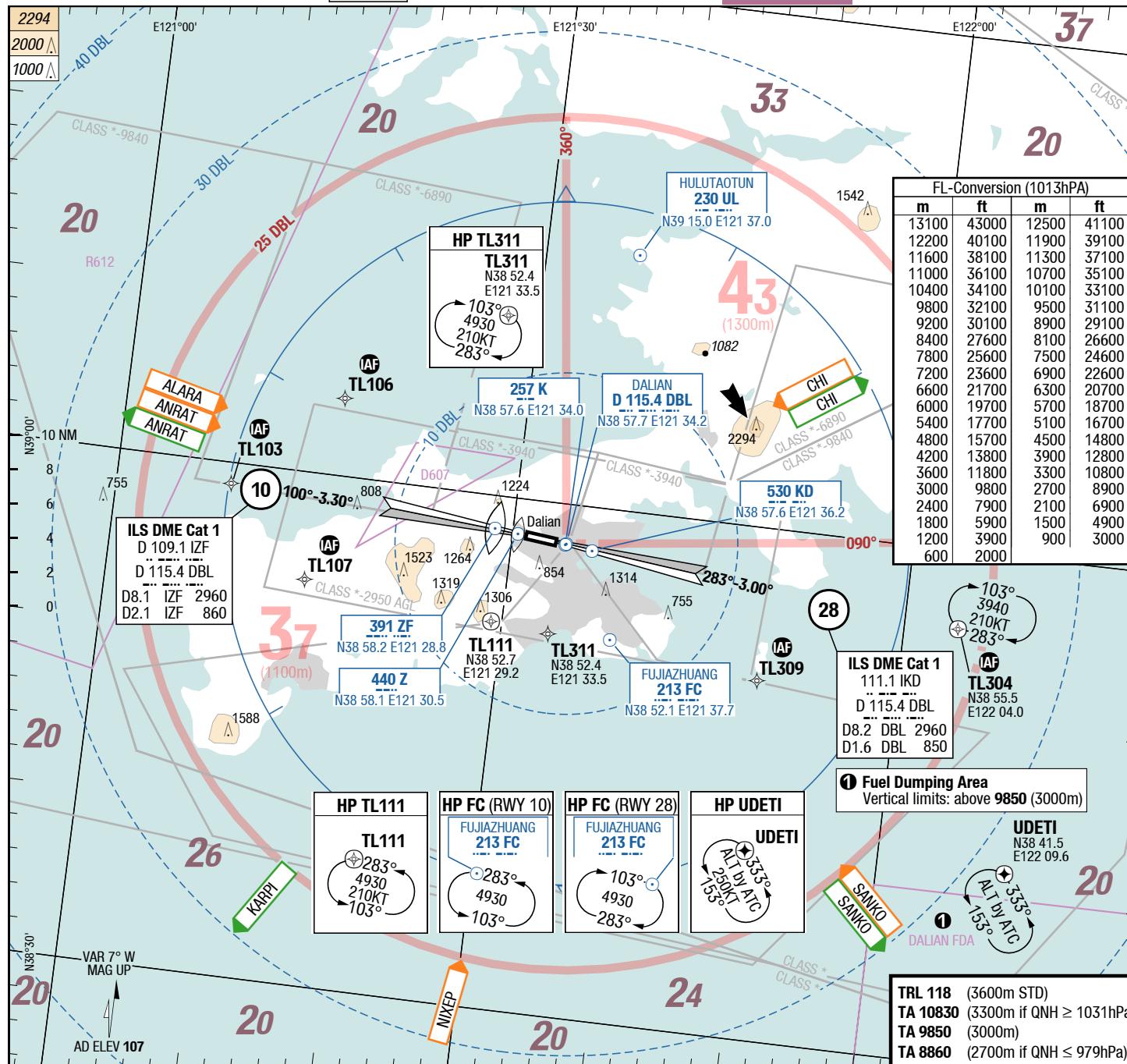
AFC

Zhoushuizi Dalian China

AGC

AFC

2-10



D-ATIS	126.650	
APP	123.850 AP01 119.600 AP02 0100-1200	127.950 AP01 127.950 AP02 0100-1200
TWR	118.250	118.850
GND	121.650	
DLV	121.850 HO	
DCL		

06-SEP-2018

DLC-ZYTL

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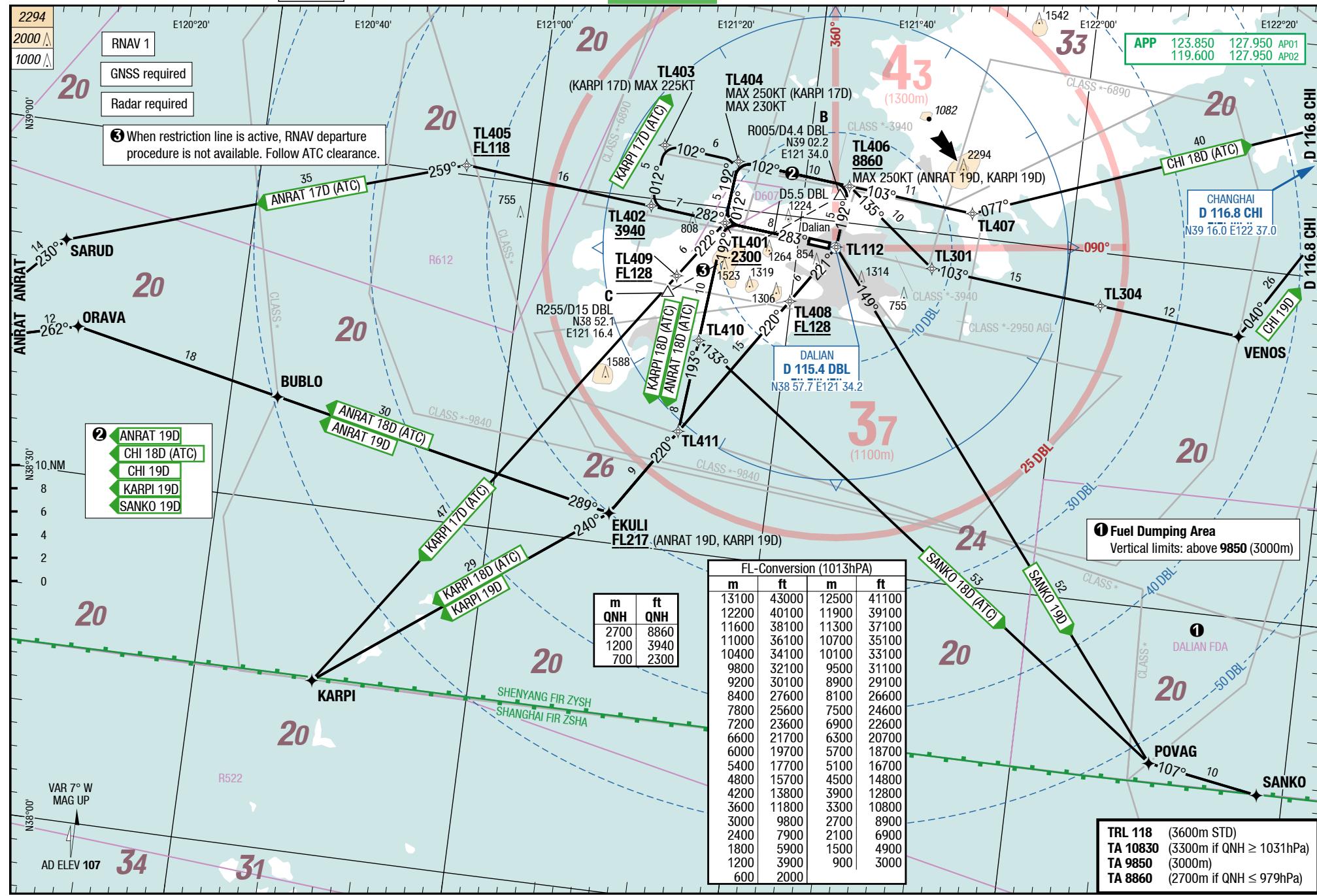
4-20

RNAV SIDs RWY 28

SID

SID

RNAV SIDs RWY 28



Changes: ASP, Note, OBST

06-SEP-2018

DLC-ZYTL

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SIDs RWY 28

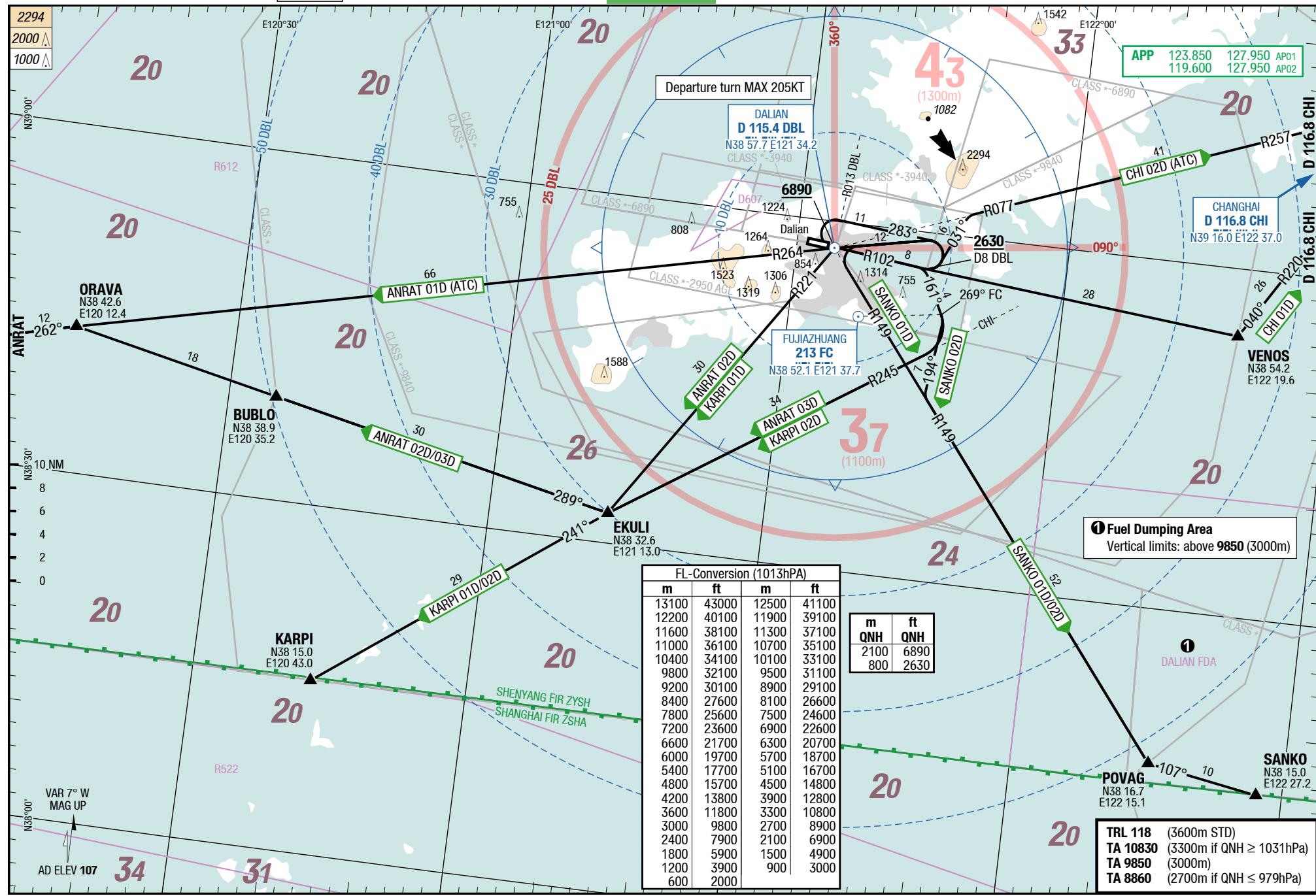
SID

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SIDs RWY 28

SIDs RWY 10

4-30



06-SEP-2018

DLC-ZYTL

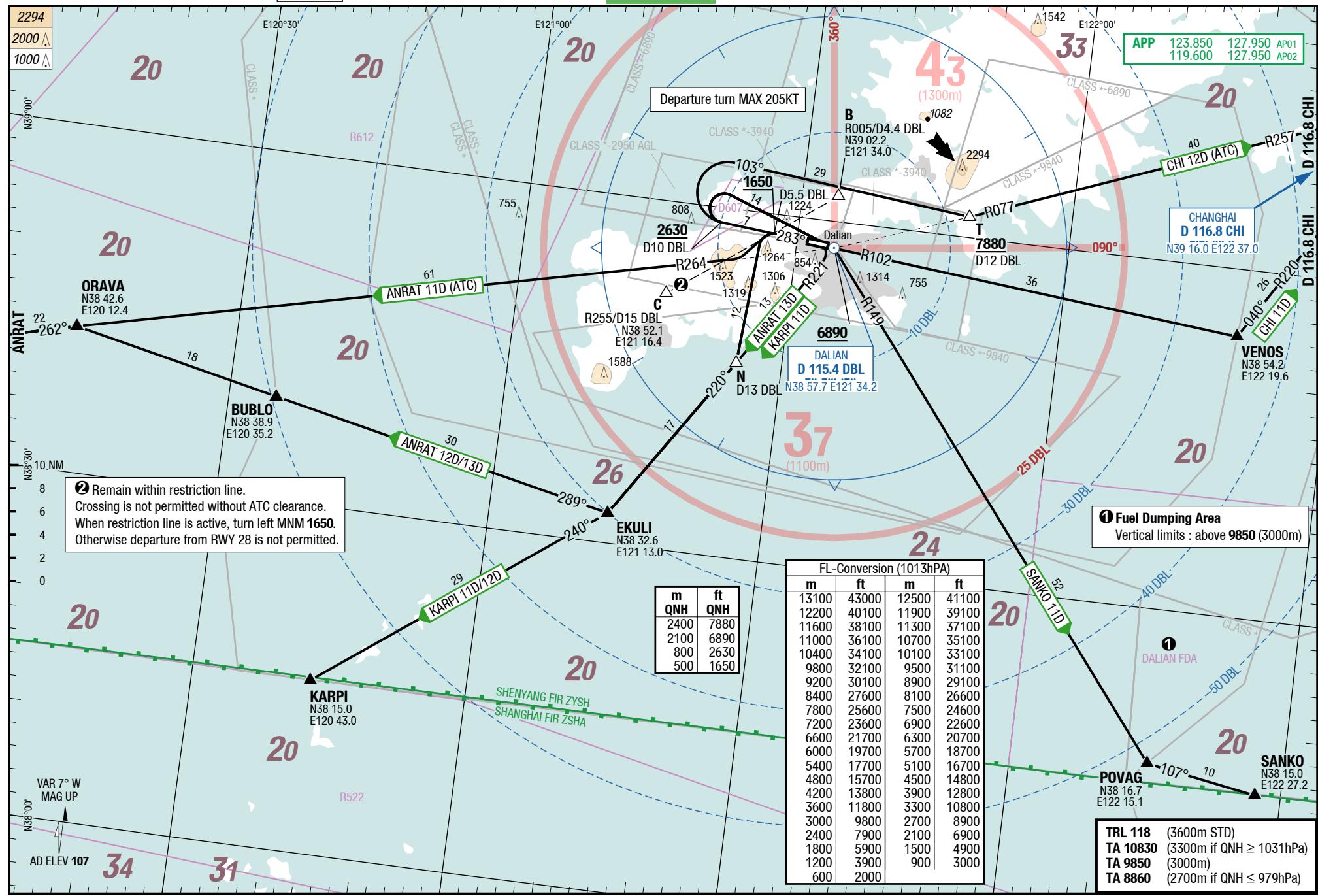
China Dalian ZhouShuizi

Zhoushuizi **Dalian** China

4-40

SIDs RWY 28

SIDs RWY 28



Changes: ASP, MGA, ALT, OBST

06-SEP-2018

DLC-ZYTL**5-10****RNAV SIDs RWY 10**

SIDPT

ANRAT 08D / ANRAT 09D / CHANGHAI 07D / CHANGHAI 08D / CHANGHAI 09D / KARPI 08D / KARPI 09D / SANKO 08D**RWY 10 (103°)**

	GS	120	150	180	210	240	270
5.0%	ft/MIN	700	800	1000	1100	1300	1400

DESIGNATOR	ROUTING	ALTITUDES
	Runway 10	
ANRAT 08D (ATC) 5.0% ①	103° TL201 - TL202 [K230-] - TL204 - TL104 - SARUD - ANRAT	TL201 MNM 2630
ANRAT 09D 5.0% ①	103° TL201 - TL202 [K230-] - TL203 - TL206 - EKULI - BUBLO - ORAVA - ANRAT	TL201 MNM 2630 TL203 MNM 8860 TL206 MNM FL128 EKULI MNM FL217
CHANGHAI 07D CHI 07D 5.0% ①	103° TL201 - TL202 - TL203 - TL205 [K220-] - TL201 - TL304 - VENOS - CHI	TL201 MNM 2630 TL203 MNM 8860 VENOS MNM FL138
CHANGHAI 08D CHI 08D 5.0% ①	103° TL201 - TL304 - VENOS - CHI	TL201 MNM 2630 VENOS MNM FL138
CHANGHAI 09D CHI 09D (ATC) 5.0% ①	103° TL201 - TL209 - CHI	TL201 MNM 2630
KARPI 08D (ATC) 5.0% ①	103° TL201 - TL202 [K230-] - TL203 - TL204 - TL107 - KARPI	TL201 MNM 2630 TL203 MNM 8860 TL107 MNM FL128
KARPI 09D 5.0% ①	103° TL201 - TL202 [K230-] - TL203 - TL206 - EKULI - KARPI	TL201 MNM 2630 TL203 MNM 8860 TL206 MNM FL128 EKULI MNM FL217
SANKO 08D 5.0% ①	103° TL201 - TL208 - POVAG - SANKO	TL201 MNM 2630

① Close-in obstacle: 1.1NM on 098° of ARP, altitude 153ft

06-SEP-2018

DLC-ZYTL**5-20****RNAV SIDs RWY 10****SANKO 09D**

RWY 10 (103°)

	GS	120	150	180	210	240	270
5.0%	ft/MIN	700	800	1000	1100	1300	1400

DESIGNATOR	ROUTING		ALTITUDES
	Runway 10		
SANKO 09D 5.0% ①	103° TL201 - TL202 [K230~] - TL203 - TL205 - TL208 - POVAG - SANKO		TL201 MNM 2630 TL203 MNM 8860

① Close-in obstacle: 1.1NM on 098° of ARP, altitude 153ft

06-SEP-2018

DLC-ZYTL**5-30****RNAV SIDs RWY 28**

SIDPT

ANRAT 17D / ANRAT 18D / ANRAT 19D / CHANGHAI 18D / CHANGHAI 19D / KARPI 17D / KARPI 18D / KARPI 19D
RWY 28 (283°)

	GS	120	150	180	210	240	270
5.5%	ft/MIN	700	900	1100	1200	1400	1600

DESIGNATOR	ROUTING	ALTITUDES
	Runway 28	
ANRAT 17D (ATC) 5.5% ①②	283° TL401 - TL402 - TL405 - SARUD - ANRAT	TL401 MNM 2300 TL402 MNM 3940 TL405 MNM FL118
ANRAT 18D (ATC) 5.5% ①②	283° TL401 - TL410 - TL411 - EKULI - BUBLO - ORAVA - ANRAT	TL401 MNM 2300
ANRAT 19D 5.5% ①②	283° TL401 - TL404 [K230-] - TL406 [K250-] - TL112 - TL408 - TL411 - EKULI - BUBLO - ORAVA - ANRAT	TL401 MNM 2300 TL406 MNM 8860 TL408 MNM FL128 EKULI MNM FL217
CHANGHAI 18D CHI 18D (ATC) 5.5% ①②	283° TL401 - TL404 [K230-] - TL406 - TL407 - CHI	TL401 MNM 2300 TL406 MNM 8860
CHANGHAI 19D CHI 19D 5.5% ①②	283° TL401 - TL404 [K230-] - TL406 - TL301 - TL304 - VENOS - CHI	TL401 MNM 2300 TL406 MNM 8860
KARPI 17D (ATC) 5.5% ①②	283° TL401 - TL402 - TL403 [K225-] - TL404 [K250-] - TL401 - TL409 - KARPI	TL401 MNM 2300 TL402 MNM 3940 TL409 MNM FL128
KARPI 18D (ATC) 5.5% ①②	283° TL401 - TL410 - TL411 - EKULI - KARPI	TL401 MNM 2300
KARPI 19D 5.5% ①②	283° TL401 - TL404 [K230-] - TL406 [K250-] - TL112 - TL408 - TL411 - EKULI - KARPI	TL401 MNM 2300 TL406 MNM 8860 TL408 MNM FL128 EKULI MNM FL217

① Departure climb gradient not applicable when VIS above 5000m and ceiling above 919ft.

② Obstacle: 4600m/2.48NM from RWY 10 THR, 395m/1296ft north of RCL, altitude 822ft.

Changes: New

06-SEP-2018

DLC-ZYTL**5-40****RNAV SIDs RWY 28****SANKO 18D / SANKO 19D**

RWY 28 (283°)

	GS	120	150	180	210	240	270
5.5%	ft/MIN	700	900	1100	1200	1400	1600

DESIGNATOR	ROUTING	ALTITUDES
	Runway 28	
SANKO 18D (ATC) 5.5% ①②	283° TL401 - TL410 - POVAG - SANKO	TL401 MNM 2300
SANKO 19D 5.5% ①②	283° TL401 - TL404 [K230-] - TL406 - TL112 - POVAG - SANKO	TL401 MNM 2300 TL406 MNM 8860

① Departure climb gradient not applicable when VIS above 5000m and ceiling above 919ft.

② Obstacle: 4600m/2.48NM from RWY 10 THR, 395m/1296ft north of RCL, altitude 822ft.

06-SEP-2018

DLC-ZYTL**5-50****SIDs RWY 10**

SIDPT

**ANRAT 01D / ANRAT 02D / ANRAT 03D / CHANGHAI 01D / CHANGHAI 02D / KARPI 01D /
KARPI 02D / SANKO 01D / SANKO 02D**
RWY 10 (103°)

	GS	120	150	180	210	240	270
5.0%	ft/MIN	700	800	1000	1100	1300	1400

DESIGNATOR	ROUTING	ALTITUDES
	Runway 10	
ANRAT 01D (ATC) 5.0% ①②	No procedure text published	D8 DBL MNM 2630 DBL MNM 6890
ANRAT 02D 5.0% ①②	No procedure text published	D8 DBL MNM 2630 DBL MNM 6890
ANRAT 03D 5.0% ②	No procedure text published	D8 DBL MNM 2630
CHANGHAI 01D CHI 01D 5.0% ②	No procedure text published	D8 DBL MNM 2630
CHANGHAI 02D CHI 02D (ATC) 5.0% ②	No procedure text published	D8 DBL MNM 2630
KARPI 01D 5.0% ①②	No procedure text published	D8 DBL MNM 2630 DBL MNM 6890
KARPI 02D 5.0% ②	No procedure text published	D8 DBL MNM 2630
SANKO 01D 5.0% ①②	No procedure text published	D8 DBL MNM 2630 DBL MNM 6890
SANKO 02D 5.0% ②	No procedure text published	D8 DBL MNM 2630

- ① If ACFT climb performance is limited, contact ATC and circle to the north of RWY, climb MNM 6890 over DBL and join the departure route.
 ② Close-in obstacle: 1.1NM on 098° of ARP, altitude 153ft.

06-SEP-2018

DLC-ZYTL**5-60****SIDs RWY 28**

SIDPT

**ANRAT 11D / ANRAT 12D / ANRAT 13D / CHANGHAI 11D / CHANGHAI 12D / KARPI 11D /
KARPI 12D / SANKO 11D**
RWY 28 (283°)

	GS	120	150	180	210	240	270
5.5%	ft/MIN	700	900	1100	1200	1400	1600

DESIGNATOR	ROUTING	ALTITUDES
	Runway 28	
ANRAT 11D (ATC) 5.5% ②③	No procedure text published	D5.5 DBL MNM 1650
ANRAT 12D 5.5% ②③	No procedure text published	D5.5 DBL MNM 1650
ANRAT 13D 5.5% ①②③	No procedure text published	D10 DBL MNM 2630 DBL MNM 6890
CHANGHAI 11D CHI 11D 5.5% ①②③	No procedure text published	D10 DBL MNM 2630 DBL MNM 6890
CHANGHAI 12D CHI 12D (ATC) 5.5% ②③	No procedure text published	D10 DBL MNM 2630 R077/D12 DBL MNM 7880
KARPI 11D 5.5% ①②③	No procedure text published	D10 DBL MNM 2630 DBL MNM 6890
KARPI 12D 5.5% ②③	No procedure text published	D5.5 DBL MNM 1650
SANKO 11D 5.5% ①②③	No procedure text published	D10 DBL MNM 2630 DBL MNM 6890

- ① If ACFT is not able to reach 6890 over DBL after departure turn, follow the ATC instructions.
- ② Departure climb gradient not applicable when VIS above 5000m and ceiling above 919ft.
- ③ Obstacle: 4600m/2.48NM from RWY 10 THR, 395m/1296ft north of RCL, altitude 822ft.

Effective 13-SEP-2018

06-SEP-2018

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RNAV STARs RWY 28

6-10

RNAV STARs RWY 10

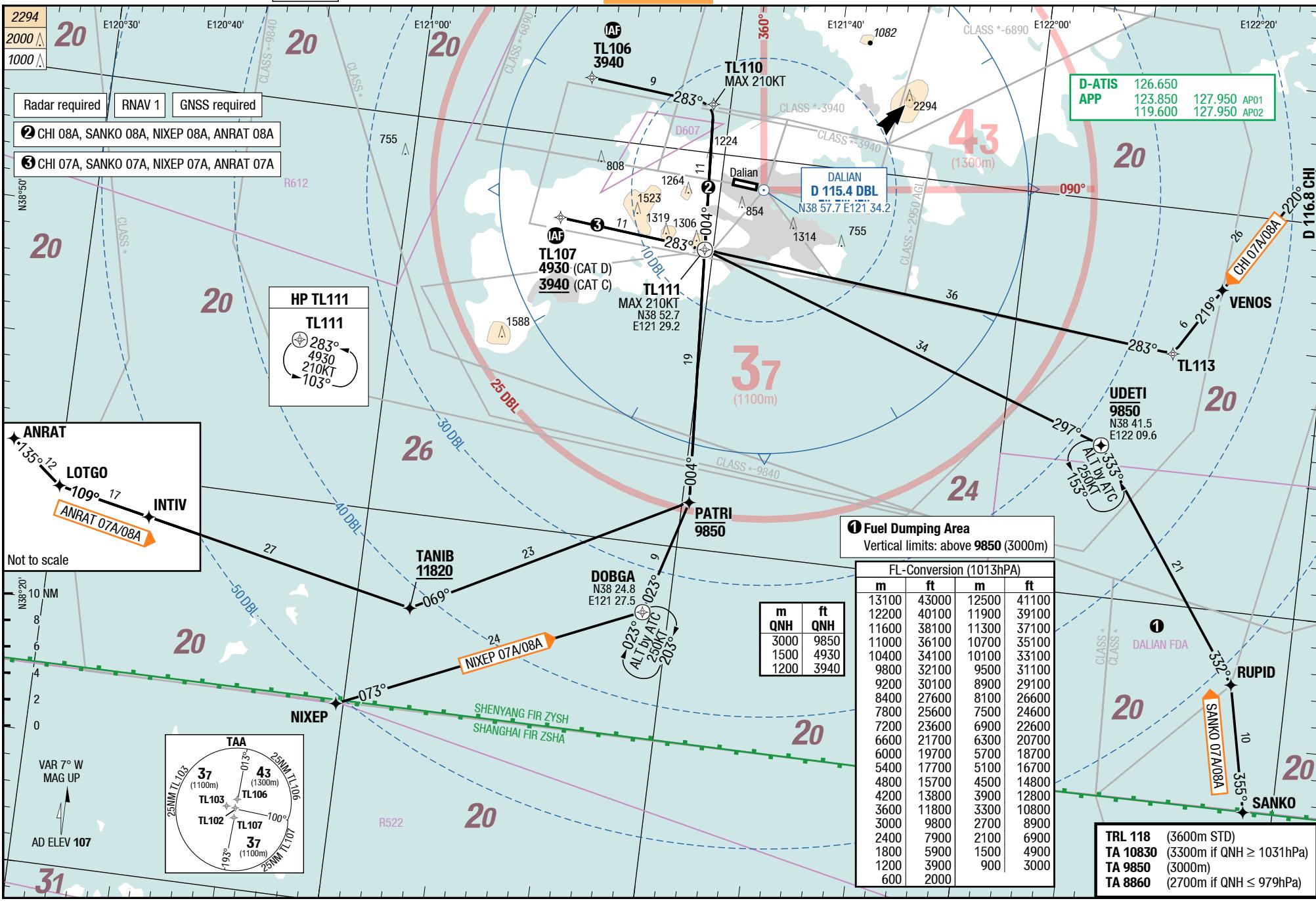
STAR

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RNAV STARs RWY 28

RNAV STARs RWY 10



Changes: PROC, MGA, OBST, Note, Editorial

Effective 13-SEP-2018

06-SEP-2018

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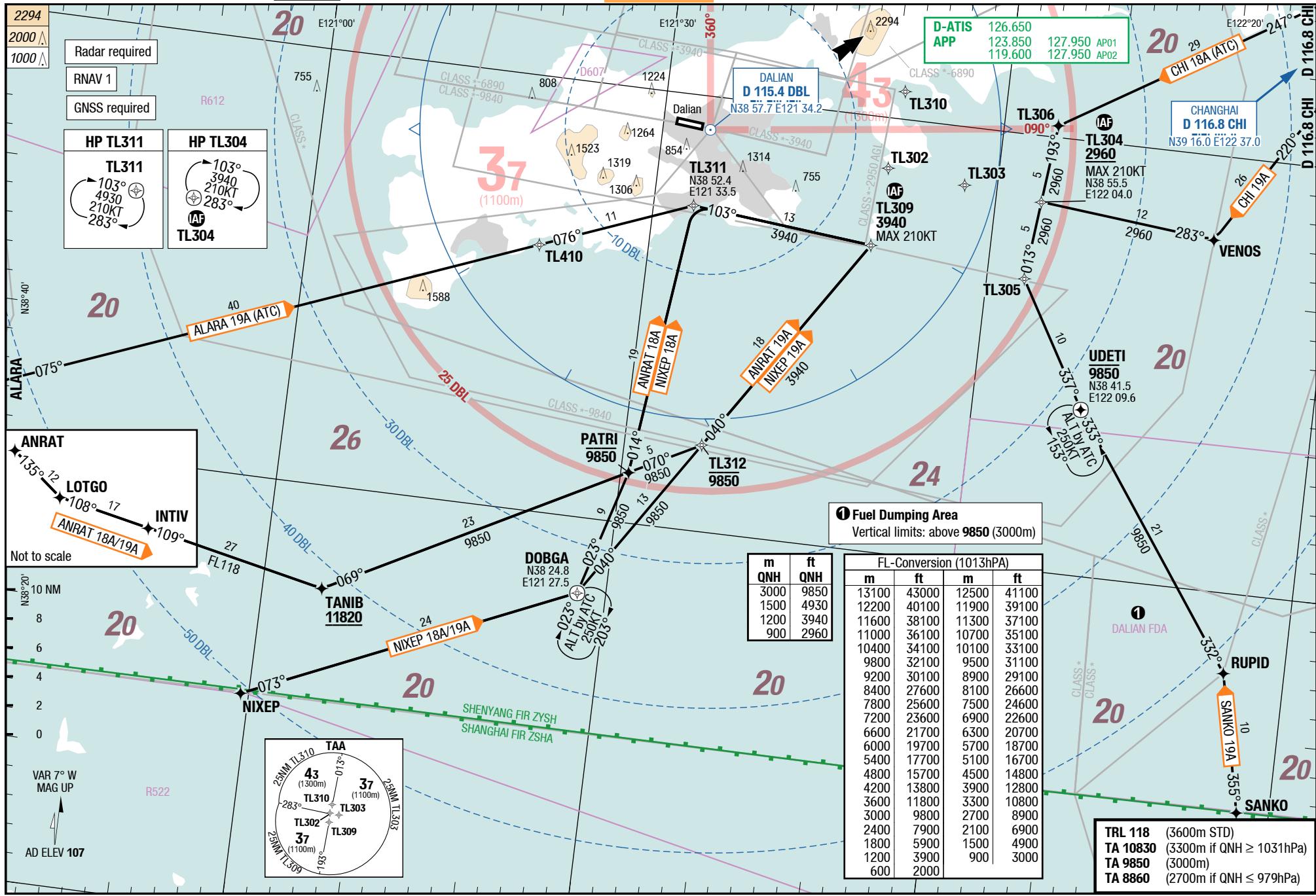
6-20

RNAV STARs RWY 28

STAR

27

RNAV STARs RWY 28



Effective 13-SEP-2018

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STARs RWY 28

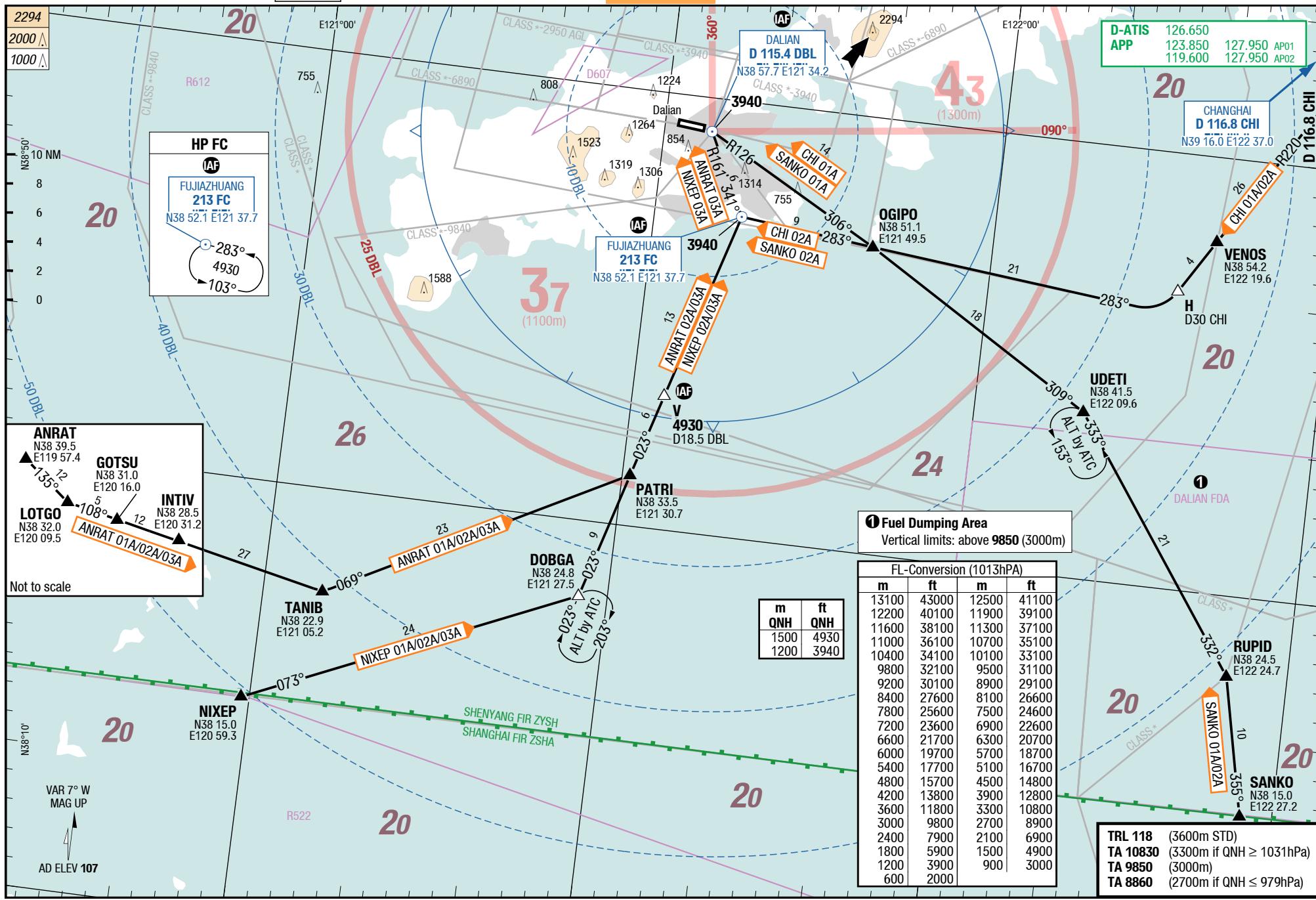
STARs RWY 10

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STARs RWY 28

STARs RWY 10

6-30



Effective 13-SEP-2018

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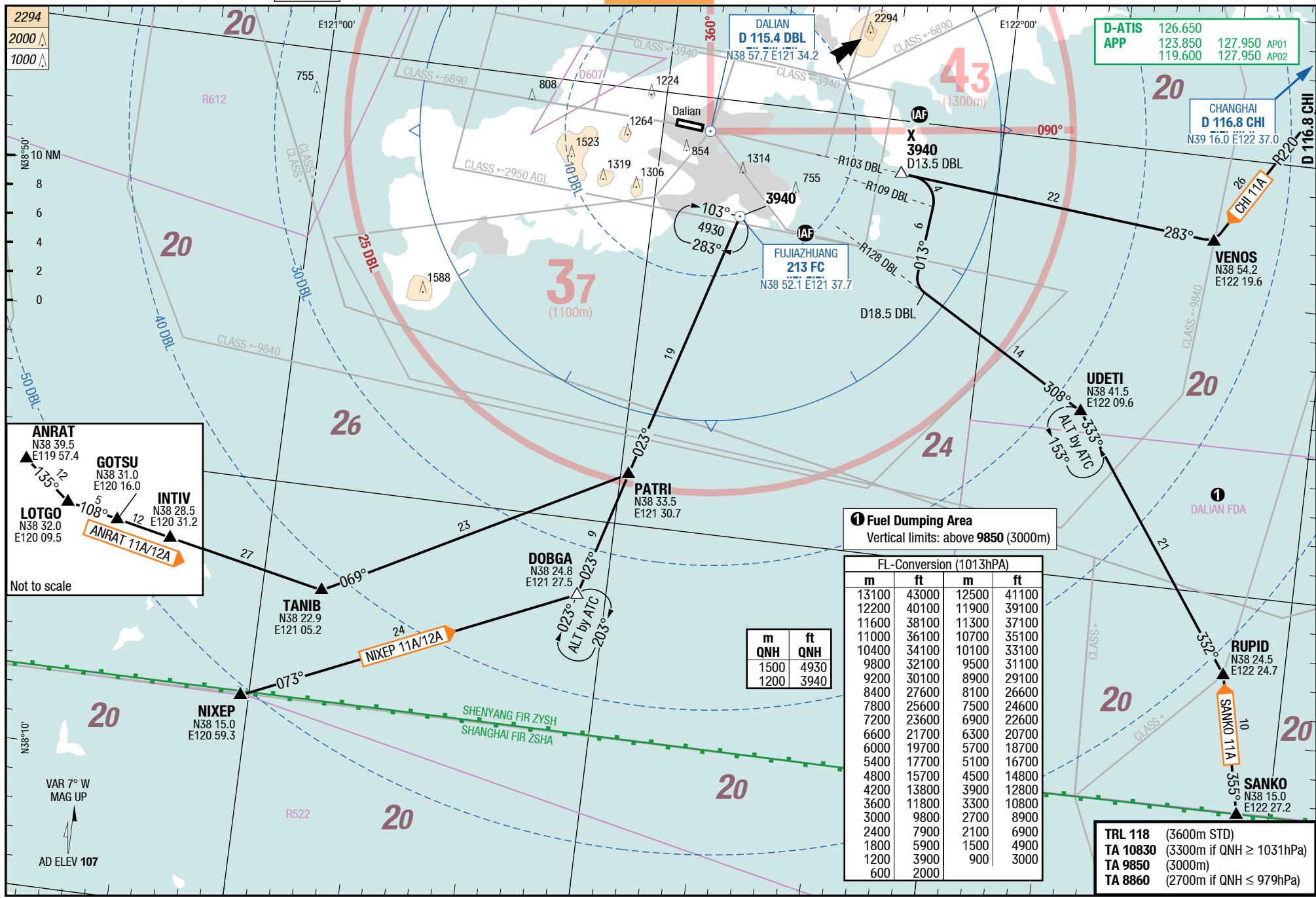
China Dalian Zhoushuizi

ZhouShuizi Dalian Chin

6-40

STARs RWY 28

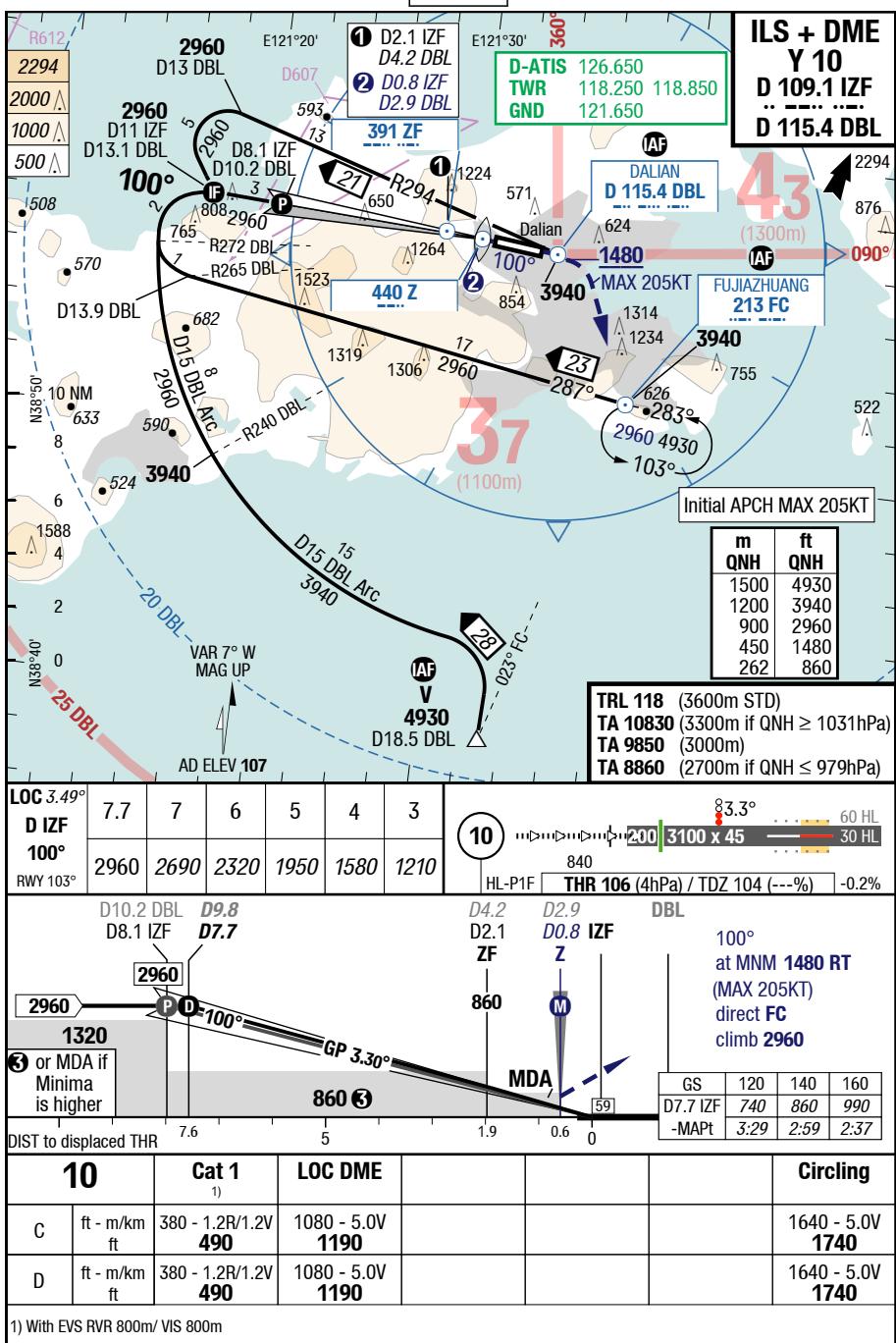
STARs RWY 28



DLC-ZYTL

7-30

ILS + DME Y 10

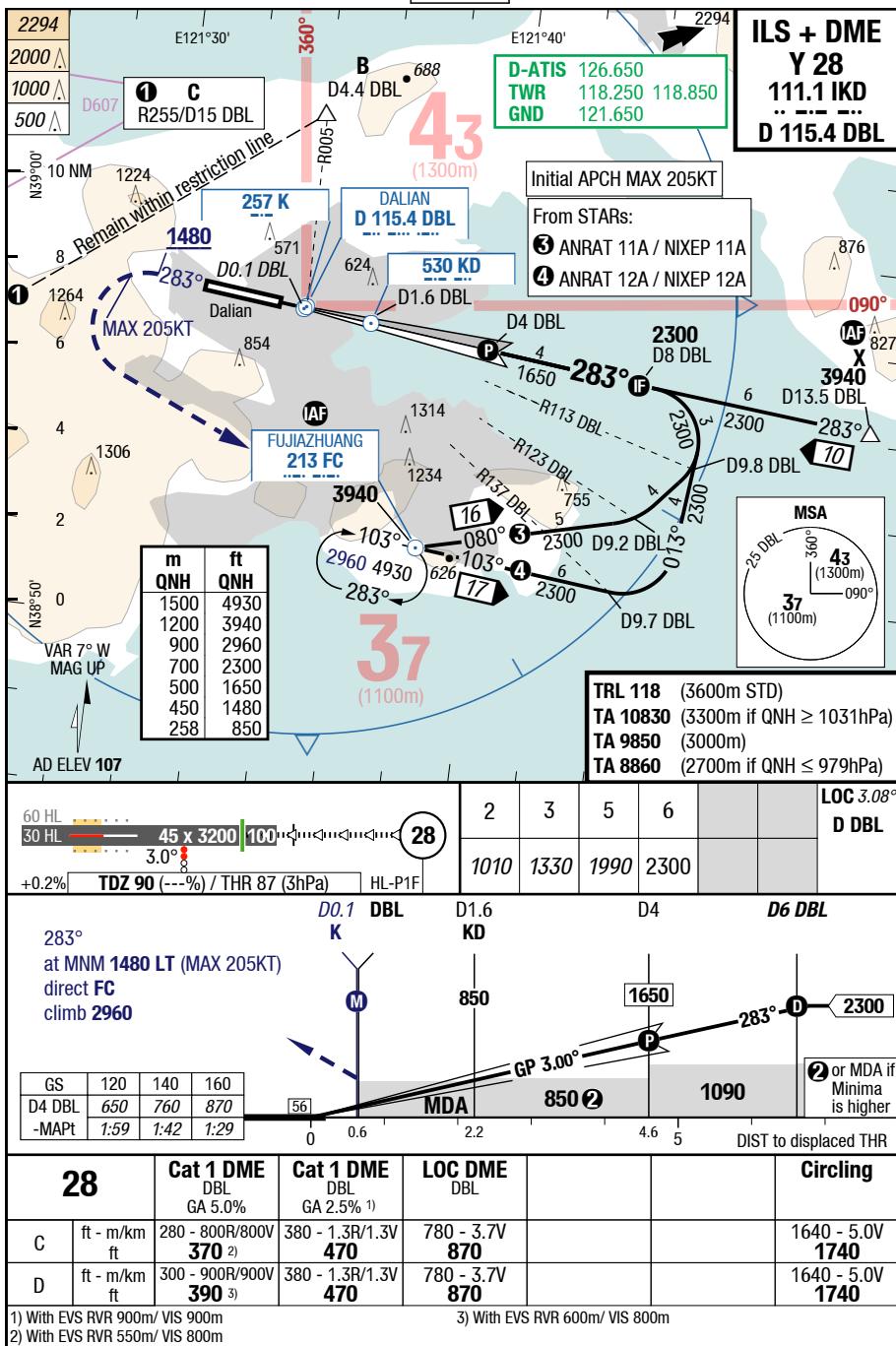


Changes: ALT, TDZE, OBST, MISAP text

DLC-ZYTL

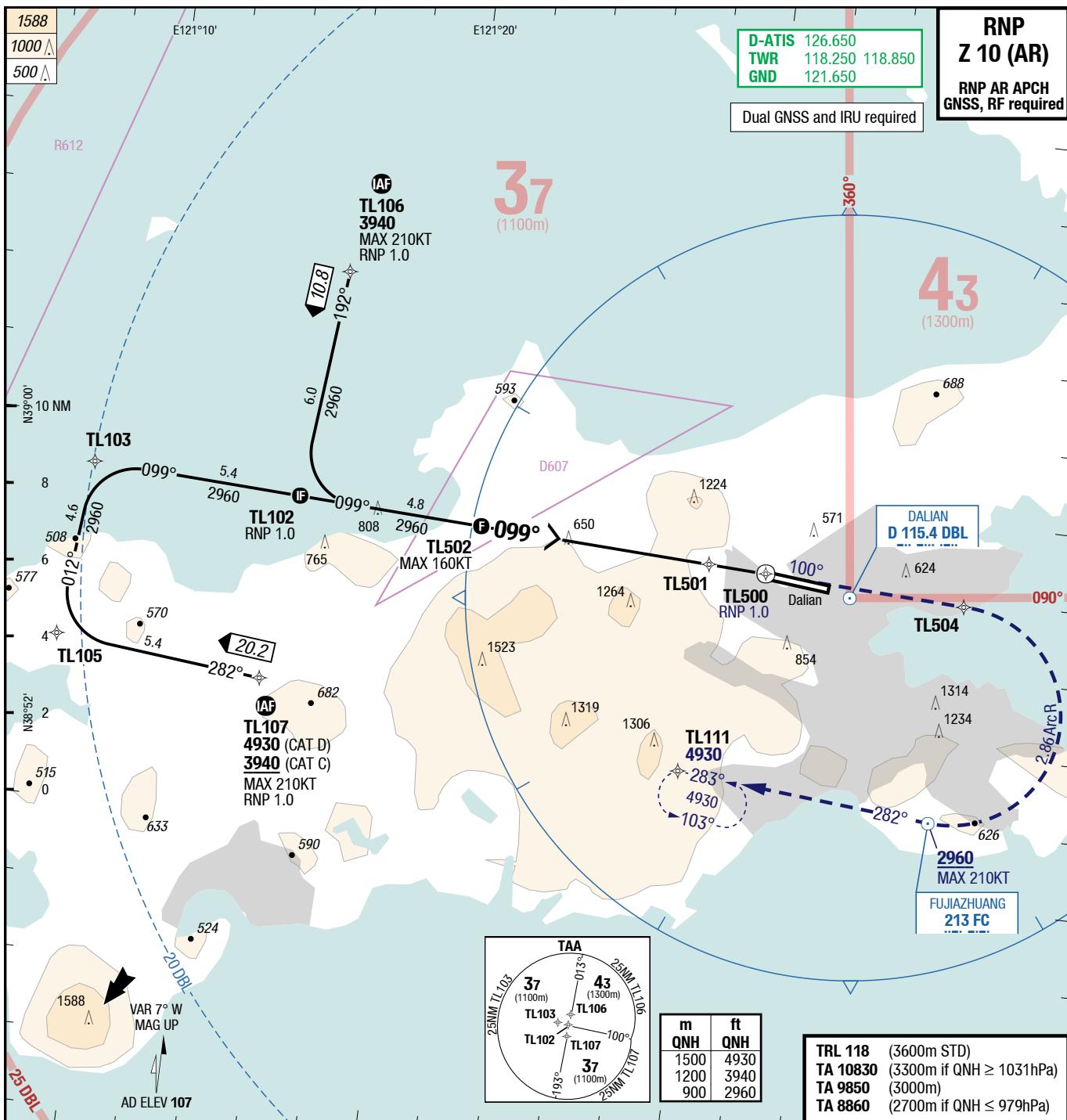
7-40

ILS + DME Y 28



Changes: ALT, TDZE, OBST, MISAP text

Changes: New



Flight plan diagram for THR 106 (4hPa) / TDZ 104 (--%)

Legs:

- TL500 (3.49°, 099°) to 2960
- 2960 to 2390 (103°)
- 2390 to 2020
- 2020 to 1650
- 1650 to 1270
- 1270 to 900
- 900 to THR 106 (4hPa) / TDZ 104 (--%)
- THR 106 (4hPa) / TDZ 104 (--%) to HL-P1F
- HL-P1F to 200
- 200 to 3100 x 45
- 3100 x 45 to 840
- 840 to THR 106 (4hPa) / TDZ 104 (--%)

Winds:

- 83.3° at 60 HL
- 30 HL at 30 HL

Altitudes:

- 12.3 TL500
- 7.5 TL502
- 1.5 RW10
- TL501 TL500
- 2960
- 099°
- 1480
- DA
- 49
- GS 120 140 160
- 740 860 990

Other:

- 100° to TL504
- RT to FC (MNM 2960)
- 282° to TL111
- climb 4930

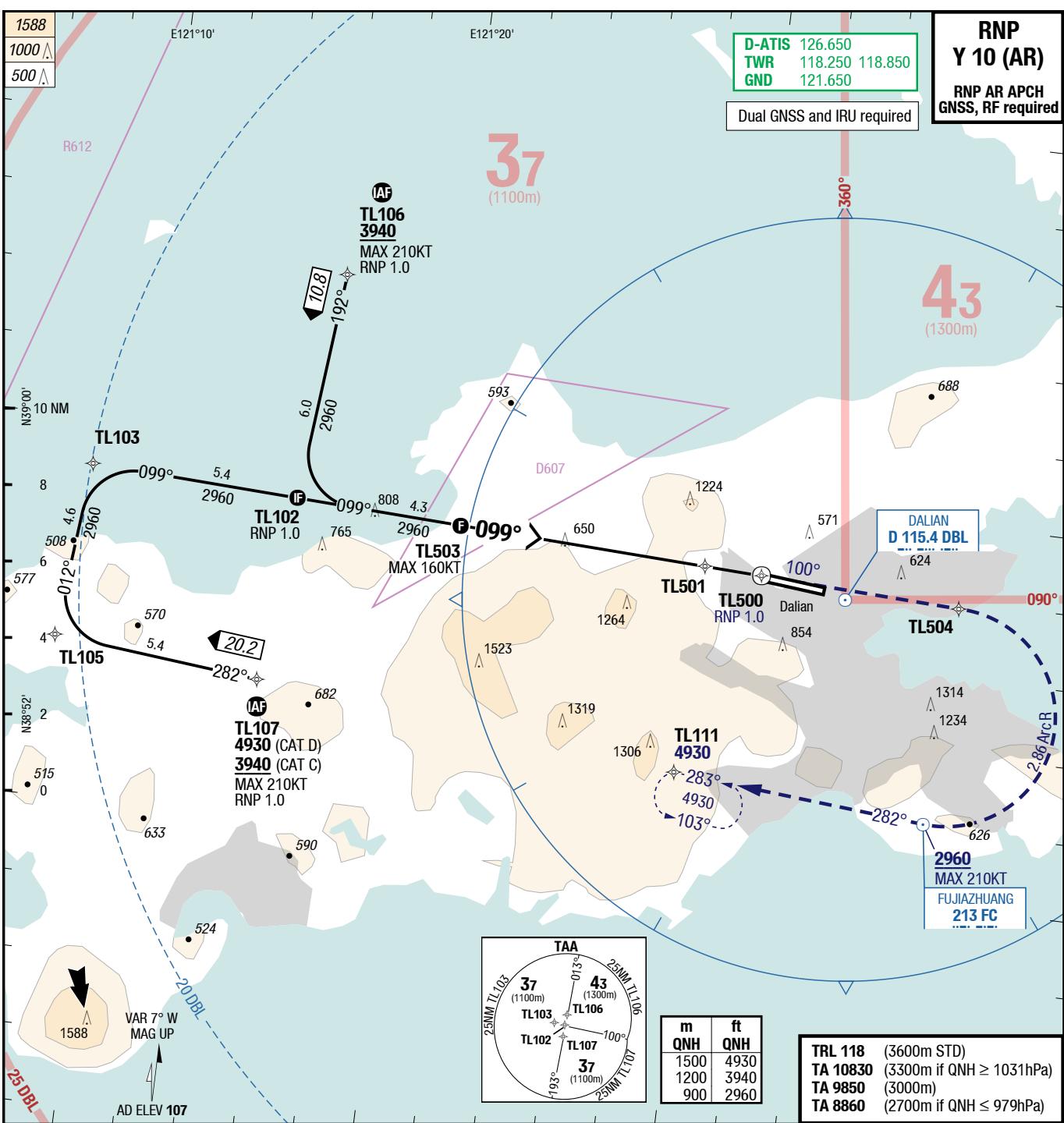
DIST to displaced THR: 10, 7.5, 5, 1.5, 0

1) Uncompensated BARO VNAV NA below 5°C (41°F) or above 30°C (86°F) 2) With EVS VIS 1.3km 3) With EVS VIS 1.4km

**RNP
Y 10 (AR)**
RNP AR APCH
GNSS, RF required

D-ATIS 126.650
TWR 118.250 118.850
GND 121.650

Dual GNSS and IRU required



3.30° TL500 099° RWY 103°					
8	6	5	4	3	2
2960	2260	1910	1560	1210	860
12.3 TL500	8	TL503			
TL102	2960	TL103			
TL500 N38 58.1 E121 31.3	1480	DA			
DIST to displaced THR	10	5	5	1.5	0
	10	RNP 0.30 VNAV ¹⁾			
C	ft - m/km ft	520 - 1.9V 620 ²⁾			
D	ft - m/km ft	Not published			

100° to TL504
RT to FC (MMN 2960)
282° to TL111
climb 4930

GS 120 140 160

700 820 930

Circling Not published

Not published

Not published

1) Uncompensated BARO VNAV NA below 20°C (68°F) or above 40°C (104°F)

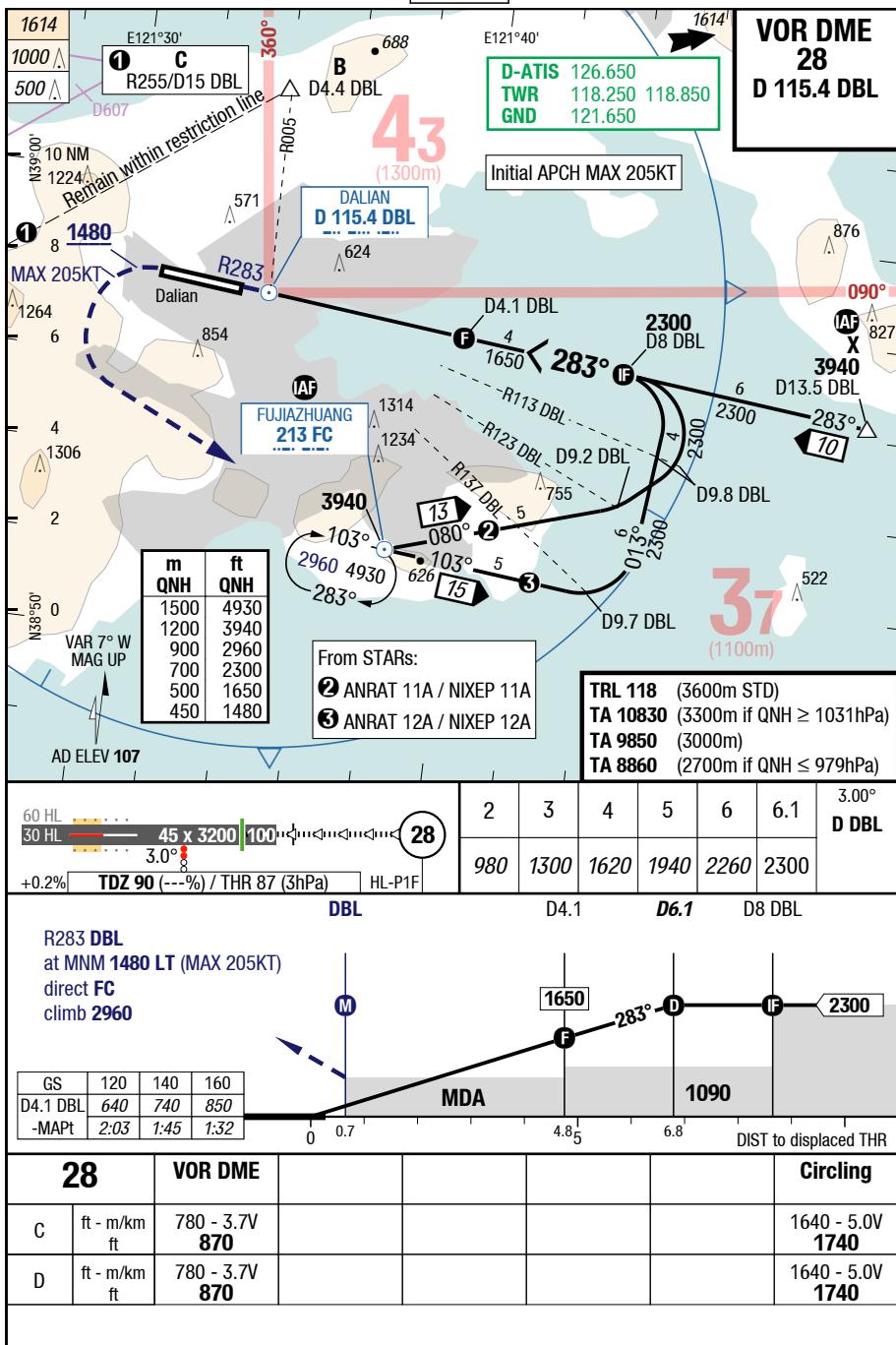
2) With EVS VIS 1.3km

06-SEP-2018

DLC-ZYTL

7-70

VOR DME 28



Changes: ALT, TDZE, OBST, MISAP text

Effective 13-SEP-2018

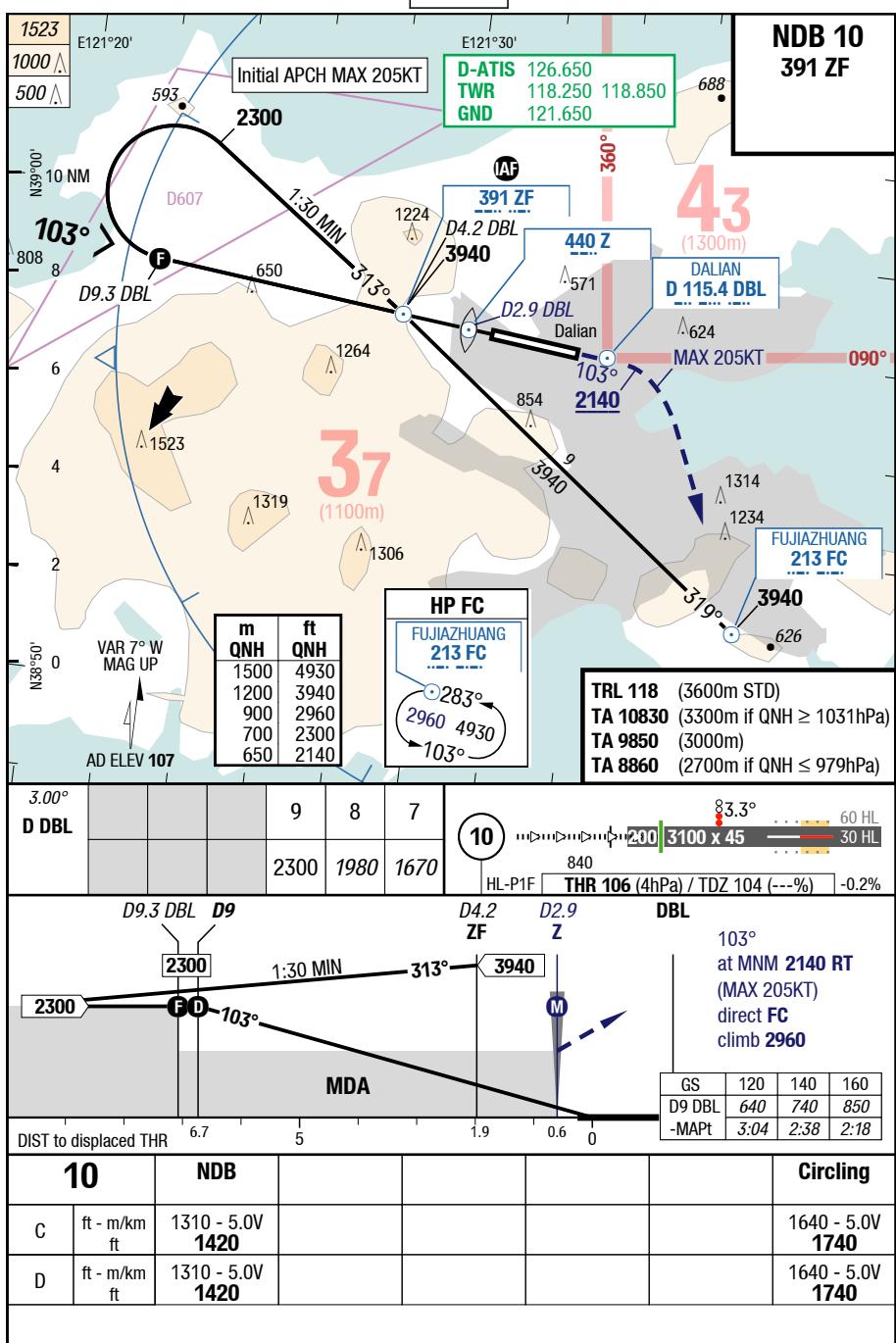
06-SEP-2018

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DLC-ZYTL

7-80

NDB 10

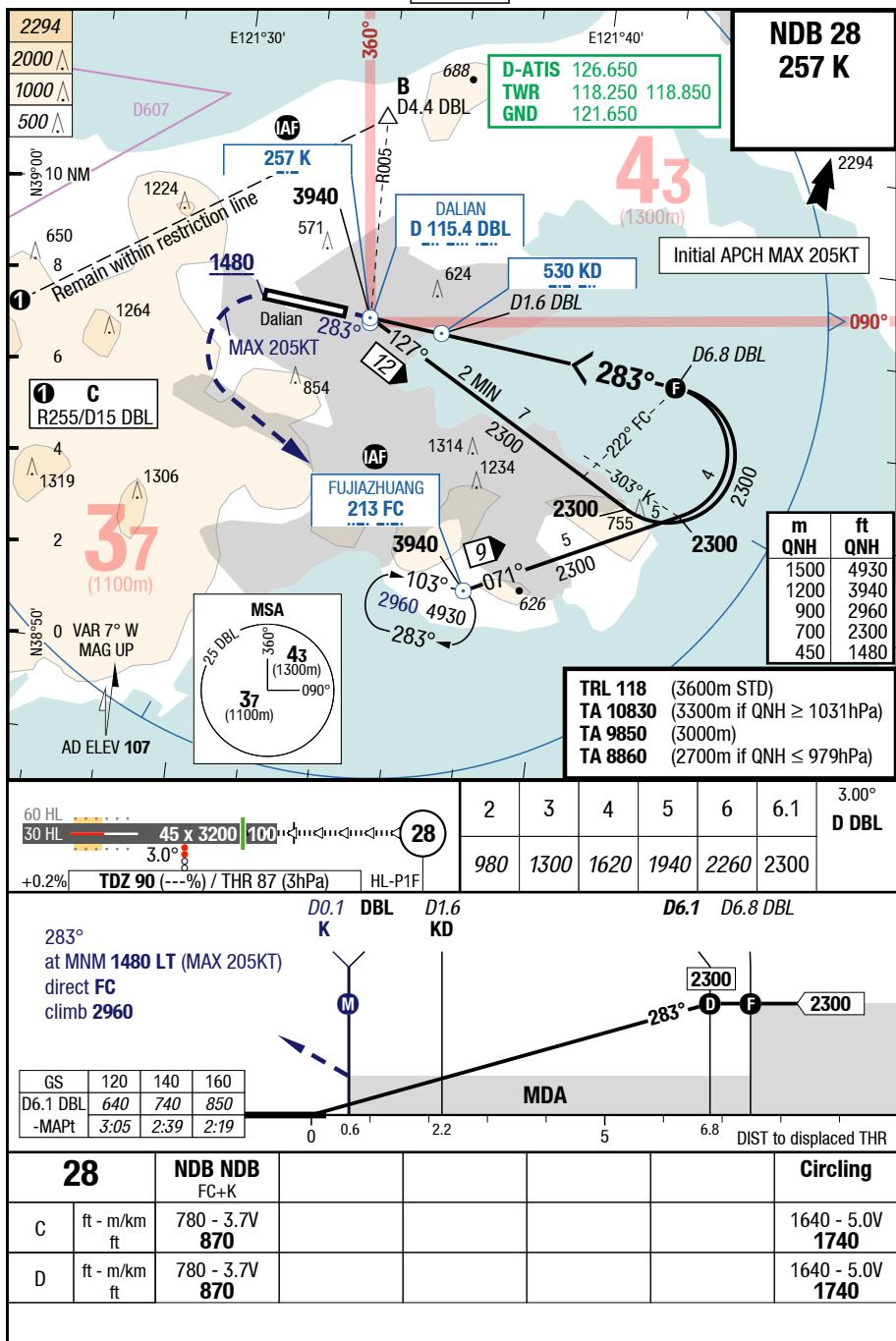


Changes: ALT, TDZE, OBST, MISAP text

DLC-ZYTL

7-90

NDB 28



Changes: ALT, TDZE, OBST, MISAP text