

**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 01/19: 77/R/C/W/T

**Operation****TWY Restrictions**

TWY T1 MAX wingspan below 36m / 118ft.

TWY H (west of T4), M MAX wingspan 52m / 171ft.

TWY T3 MAX wingspan 64.92m / 213ft.

TWY H (east of T4), J, T4 MAX wingspan 65m / 213ft.

180° turns on TWYs forbidden.

**Taxi/Parking**

Follow-me mandatory for LDG ACFT.

Repeat taxi instructions issued by TWR.

Push-back on its own power is prohibited without CLR from TWR.

**Engine Run-up Areas**

ENG run-ups are subject to TWR CLR and may only be carried out a designated location. Fast ENG run ups at APNs and near boarding bridges are prohibited. ENG test on idle are subject to Control Center and TWY CLR and may only be carried out at stands 201-209, 301-304, 306-309, 311, 312.

**Warnings**

**DP NDB** unusable:

- 005° beyond 10NM
- 025° beyond 12NM
- 055° beyond 15NM

Birds in vicinity of AD.

**ARRIVAL****Arrival Procedure****VFR Traffic Pattern**

RWY 01/19 right- and left-hand circuit;

ALT 350m / 1148ft for CAT A/B ACFT.

ALT 500m / 1640 for CAT C/D ACFT.

**Minimum Runway Occupancy Time (MROT)**

Ensure standard MROT procedures and in addition:

Inform TWR if unable to comply.

**Communication**

On initial contact with TWR, report RWY and TWY designation after vacating RWY, especially under low visibility conditions.

**ARRIVAL****COM Failure**

ACFT COM failure:

If radio receiver AVBL: follow instruction to fly.

If radio receiver not AVBL: continue APCH according to following PROC ASAP. If condition of AD is not AVBL, pilot decide to return or ALTN.

LDG to north:

According to the last commanded ALT: maintain commanded ALT, fly to DP NDB and join HLDG PROC; if ACFT has not fly over IAF, descend to the initial APCH ALT 1500m / 4930ft, APCH and land according to RWY 01 IAP. If ACFT has already fly over IAF without receiving LDG clearance, APCH to decision ALT (or maintain MNM descend ALT to missed APCH point) and go around, then climb to 1500m / 4930ft to DP NDB and land according to RWY 01 IAP.

LDG to south:

According to the last commanded ALT: maintain commanded ALT, fly to DP NDB and join HLDG PROC; if ACFT has not fly over IAF, descend to the initial APCH ALT 2400m / 7880ft, APCH and land according to RWY 19 IAP. If ACFT has already fly over IAF without receiving LDG clearance, APCH to decision ALT (or maintain MNM descend ALT to missed APCH point) and go around, then climb to 2400m / 7880ft to DP NDB and land according to RWY 19 IAP.

Aerodrome COM failure:

If COM can not be established with AD control unit, contact previous control unit, and follow instructions.

**Warnings**

Do not mistake main TWY west of RWY with RWY.

**DEPARTURE****Take-off Minima**

RWY		01/19	
All ACFT	ft - m/km	0 - 400R/800V	HJ only
		0 - 500R/800V	wo LGT, HJ only
		0 - 800R/800V	HN

**Departure Procedure****Minimum Runway Occupancy Time (MROT)**

Ensure standard MROT procedures and in addition:

DEP ACFT shall finish RWY alignment within 60s from HLDG position. If unable to comply inform TWR.

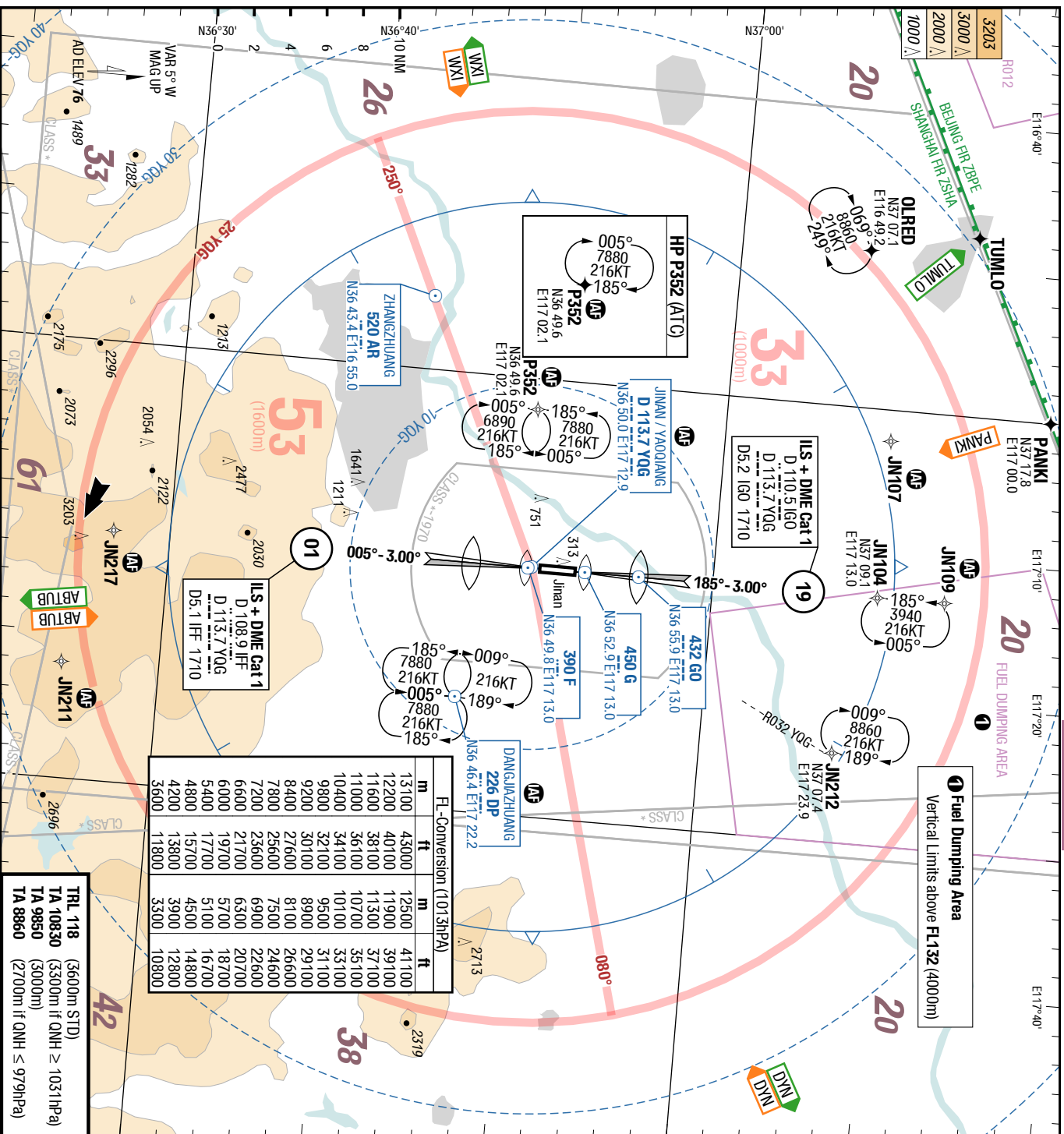
**De-Icing**

AVBL.

Yaoqiang **Jinan** China



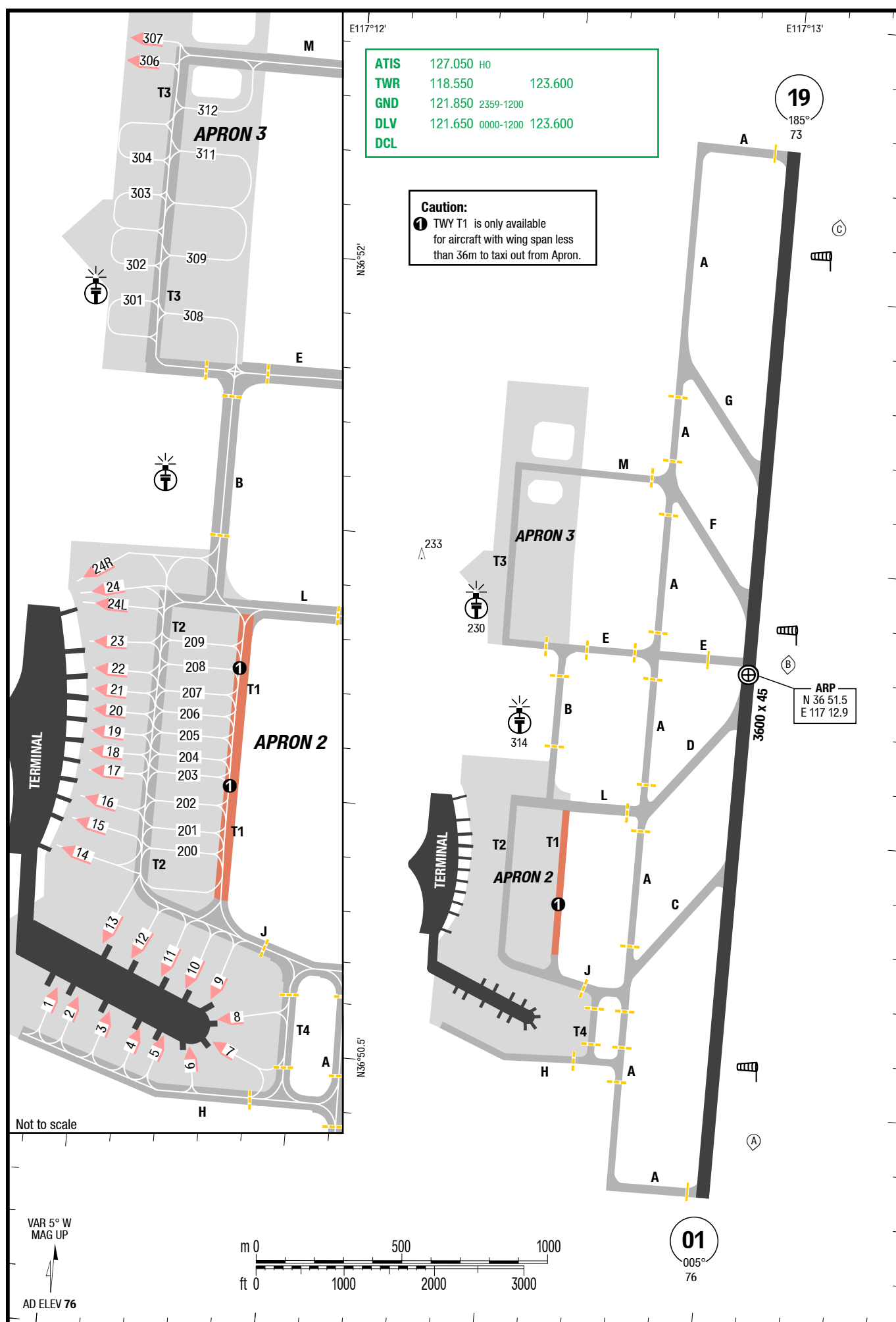
**AFC**



ATIS	121.050	HO
APP	119.050	AP01
	119.225	AP02
		2300-1500
TWR	121.400	
	118.550	
GND	123.600	
	121.850	2359-1200
DLV	121.650	0000-1200
DCL	123.600	

HL-PIF **76 / 3MPa** TDZ---% 0.0%

60 HL  
30 HL  
45 x 3600  
3.0%  
0.0%  
TDZ ---%  
73 / 3HPa  
HL-P1F  
19



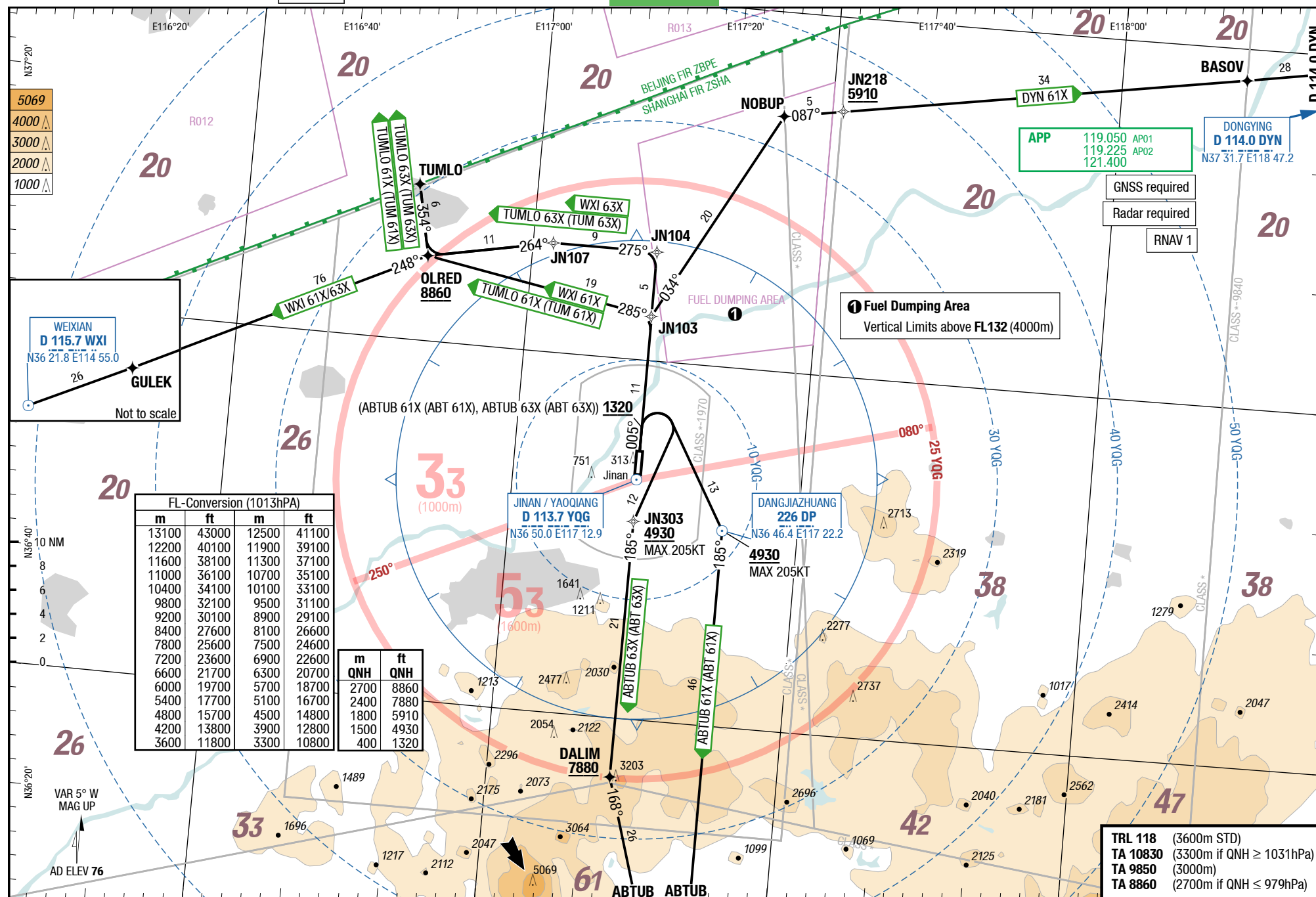
**TNA-ZSJN**

## RNAV SIDs RWY 01

SID

SID

## RNAV SIDs RWY 01



Changes: Completely revised

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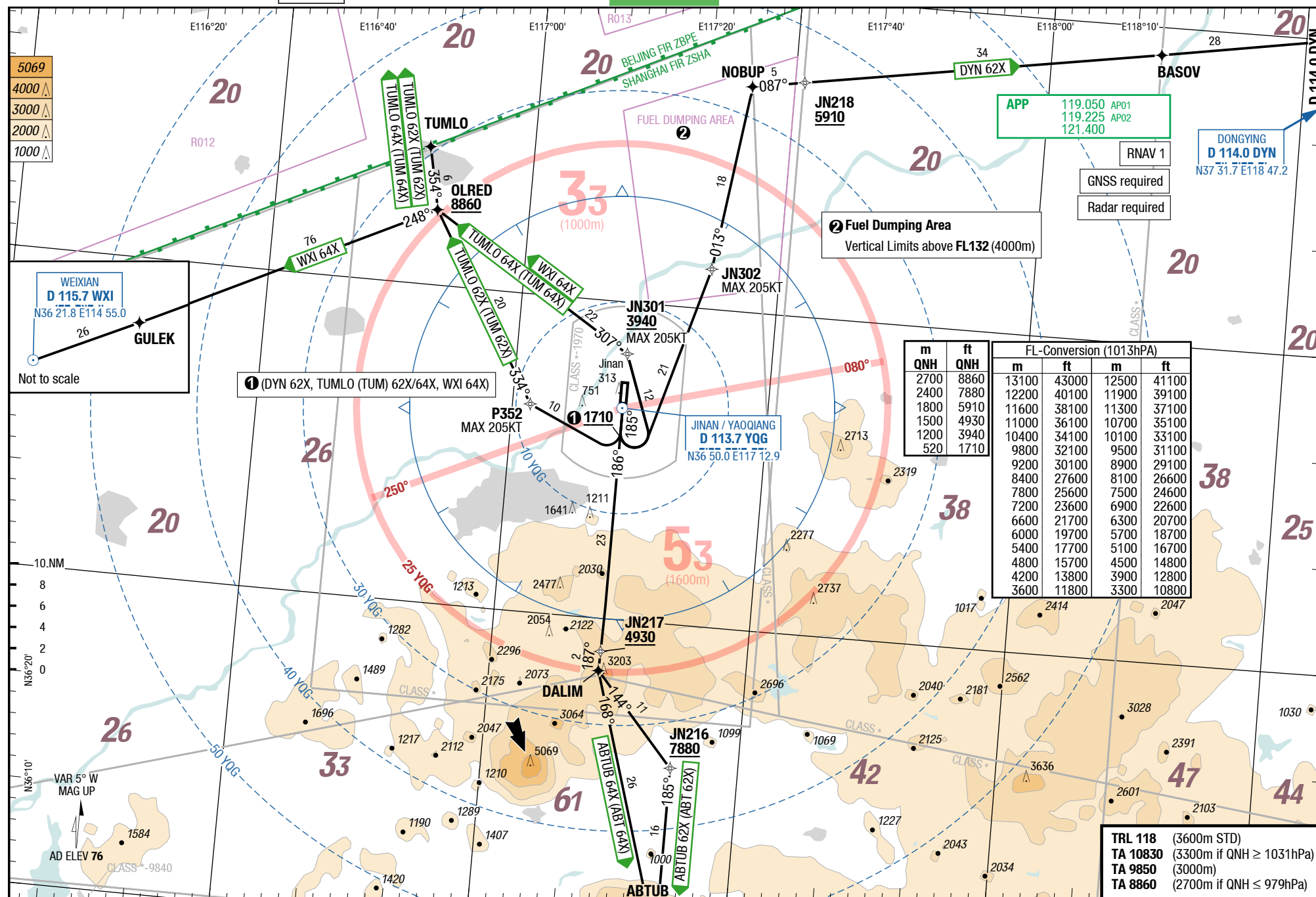
**TNA-ZSJN**

## RNAV SIDs RWY 19

SID

SID

## RNAV SIDs RWY 19



Changes: Completely revised

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14-JUN-2018

TNA-ZSJN

China Jinan Yaoqiang

SIDs RWY 19

SIDs RWY 01

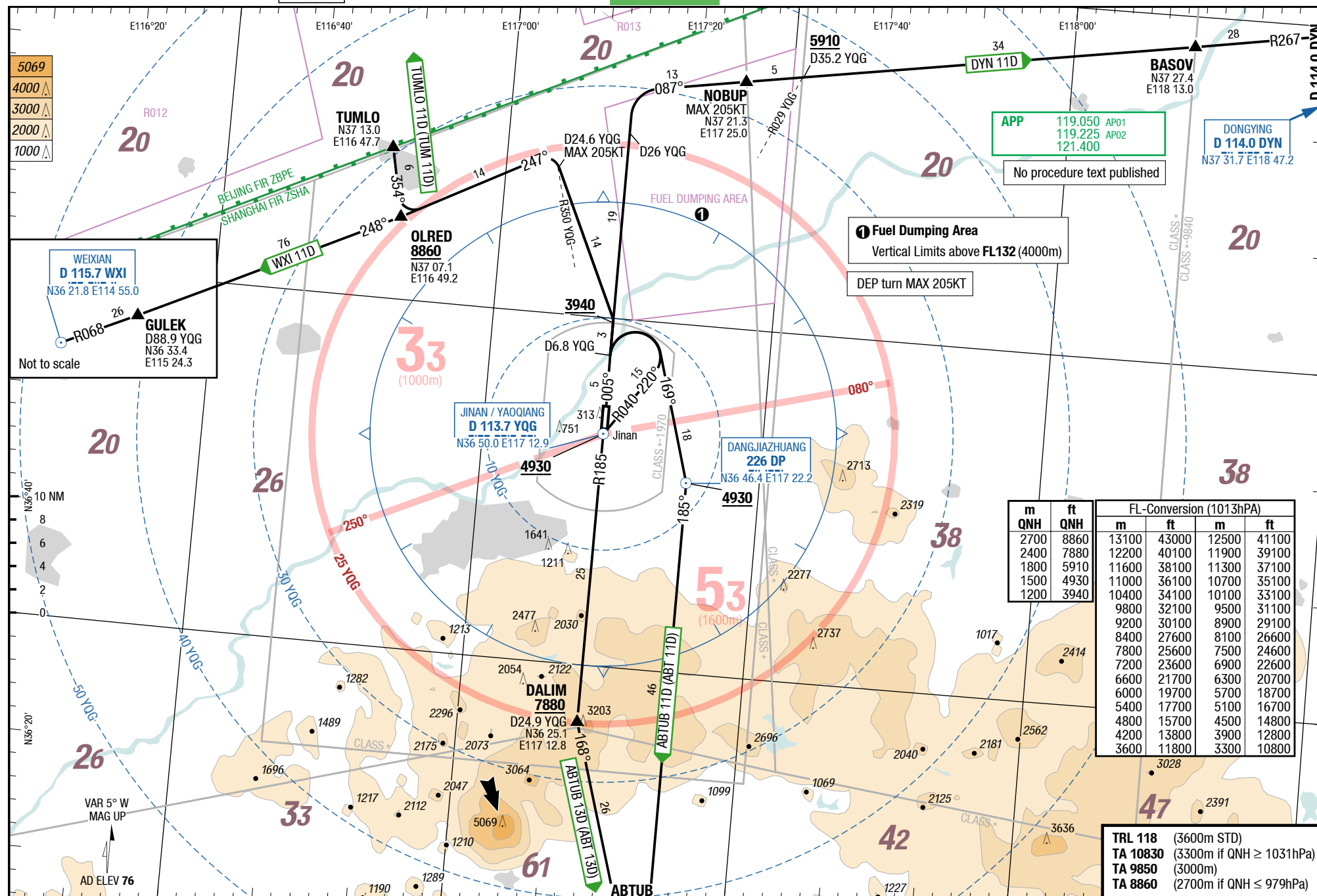
SID

SID

Yaoqiang Jinan China

SIDs RWY 19

SIDs RWY 01



Changes: Completely revised

14-JUN-2018

**TNA-ZSJN**

China **Jinan** Yaoqiang

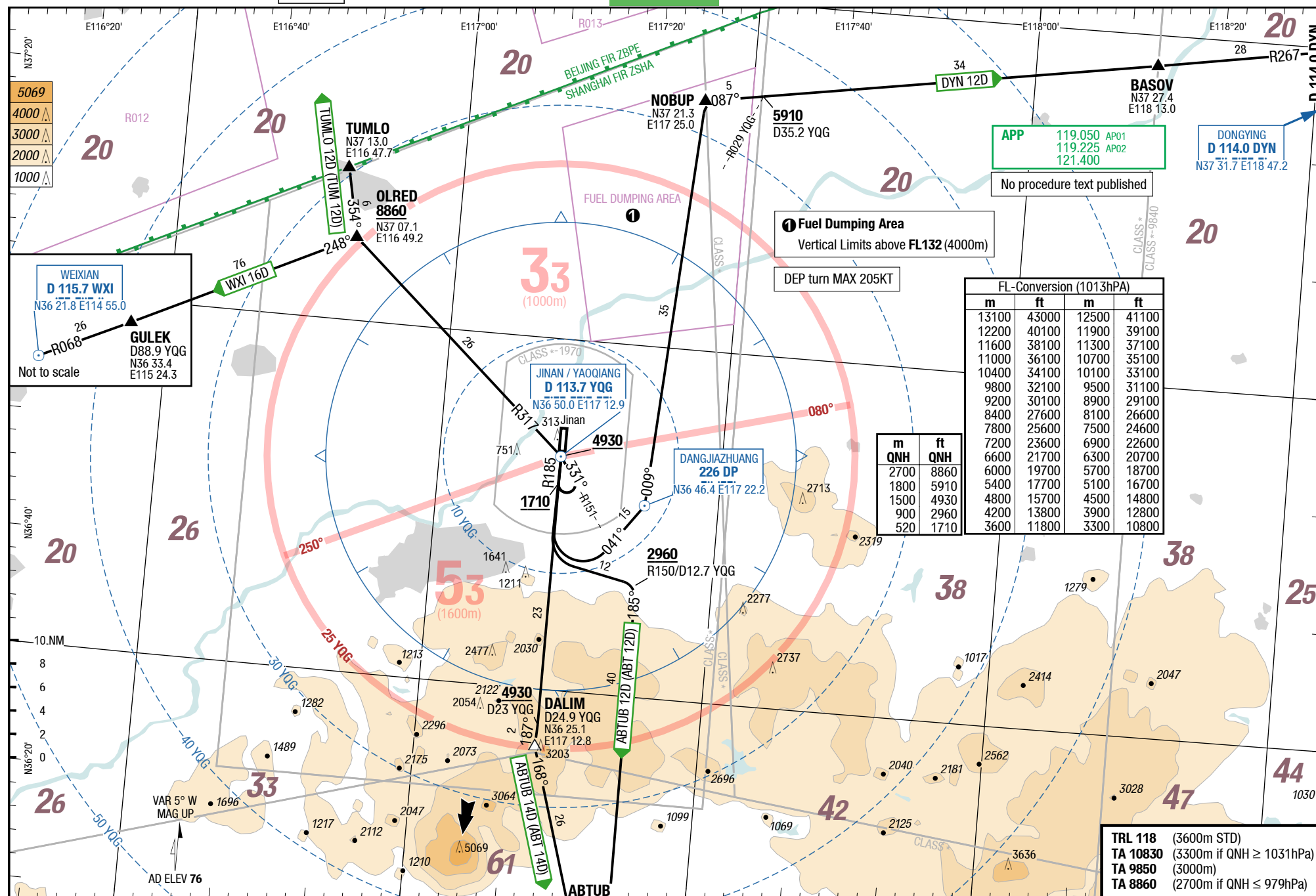
SID

SID

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## SIDs RWY 19

## SIDs RWY 19



Changes: Completely revised



14-JUN-2018

TNA-ZSJJ

5-10

RNAV SIDs RWY 01

SIDPT

**ABTUB 61X / ABTUB 63X / DONGYING 61X / TUMLO 61X / TUMLO 63X / WEIXIAN 61X / WEIXIAN 63X**

RWY 01 (005°)

	GS	120	150	180	210	240	270
4.2%	ft/MIN	600	700	800	900	1100	1200
4.8%	ft/MIN	600	800	900	1100	1200	1400

DESIGNATOR	ROUTING	ALTITUDES
	<b>Runway 01</b>	
<b>ABTUB 61X</b> <b>ABT 61X</b> <b>119.050</b>	005° [A1320+ ;R] - DCT DP [K205-] - ABTUB	DP MNM <b>4930</b>
<b>ABTUB 63X</b> <b>ABT 63X</b> <b>119.050</b>	005° [A1320+ ;R] - DCT JN303 [K205-] - DALIM - ABTUB	JN303 MNM <b>4930</b> DALIM MNM <b>7880</b>
<b>DONGYING 61X</b> <b>DYN 61X</b> <b>119.050</b>	005° JN103 - NOBUP - JN218 - BASOV - DYN	JN218 MNM <b>5910</b>
<b>TUMLO 61X</b> <b>TUM 61X</b> 4.8% <b>119.050</b>	005° JN103 - OLRED - TUMLO	OLRED MNM <b>8860</b>
<b>TUMLO 63X</b> <b>TUM 63X</b> 4.2% <b>119.050</b>	005° JN103 - JN104 - JN107 - OLRED - TUMLO	OLRED MNM <b>8860</b>
<b>WEIXIAN 61X</b> <b>WXI 61X</b> 4.8% <b>119.050</b>	005° JN103 - OLRED - GULEK - WXI	OLRED MNM <b>8860</b>
<b>WEIXIAN 63X</b> <b>WXI 63X</b> 4.2% <b>119.050</b>	005° JN103 - JN104 - JN107 - OLRED - GULEK - WXI	OLRED MNM <b>8860</b>

**ABTUB 62X / ABTUB 64X / DONGYING 62X / TUMLO 62X / TUMLO 64X / WEIXIAN 64X**  
RWY 19 (185°)

	GS	120	150	180	210	240	270
4.3%	ft/MIN	600	700	800	1000	1100	1200
5.3%	ft/MIN	700	900	1000	1200	1300	1500

DESIGNATOR	ROUTING	ALTITUDES
	<b>Runway 19</b>	
<b>ABTUB 62X</b> <b>ABT 62X</b> <b>119.050</b>	RW19 - JN217 - DALIM - JN216 - ABTUB	JN217 MNM <b>4930</b> JN216 MNM <b>7880</b>
<b>ABTUB 64X</b> <b>ABT 64X</b> <b>119.050</b>	RW19 - JN217 - DALIM - ABTUB	JN217 MNM <b>4930</b>
<b>DONGYING 62X</b> <b>DYN 62X</b> <b>119.050</b>	185° [A1710+ ;L] - DCT JN302 [K205-] - NOBUP - JN218 - BASOV - DYN	JN218 MNM <b>5910</b>
<b>TUMLO 62X</b> <b>TUM 62X</b> 4.3% <b>119.050</b>	185° [A1710+ ;R] - DCT P352 [K205-] - OLRED - TUMLO	OLRED MNM <b>8860</b>
<b>TUMLO 64X</b> <b>TUM 64X</b> 5.3% <b>119.050</b>	185° [A1710+ ;L] - DCT JN301 [K205-] - OLRED - TUMLO	JN301 MNM <b>3940</b> OLRED MNM <b>8860</b>
<b>WEIXIAN 64X</b> <b>WXI 64X</b> 5.3% <b>119.050</b>	185° [A1710+ ;L] - DCT JN301 [K205-] - OLRED - GULEK - WXI	JN301 MNM <b>3940</b> OLRED MNM <b>8860</b>

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TNA-ZSJN

6-10

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RNAV STARs RWY 19

RNAV STARs RWY 01

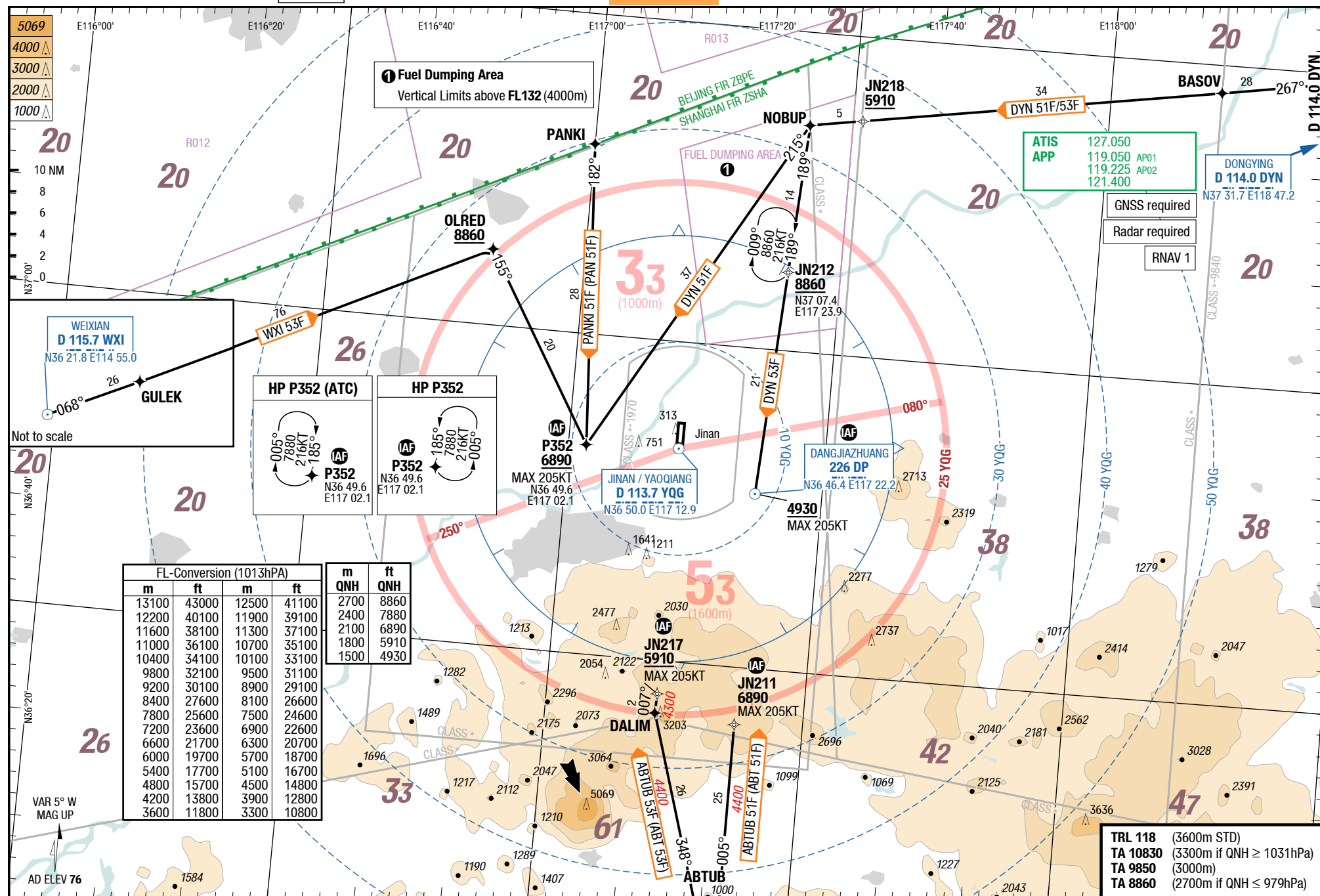
STAR

STAR

Yaoqiang Jinan China

RNAV STARs RWY 19

RNAV STARs RWY 01



Changes: Completely revised

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TNA-ZSJN

China Jinan Yaoqiang

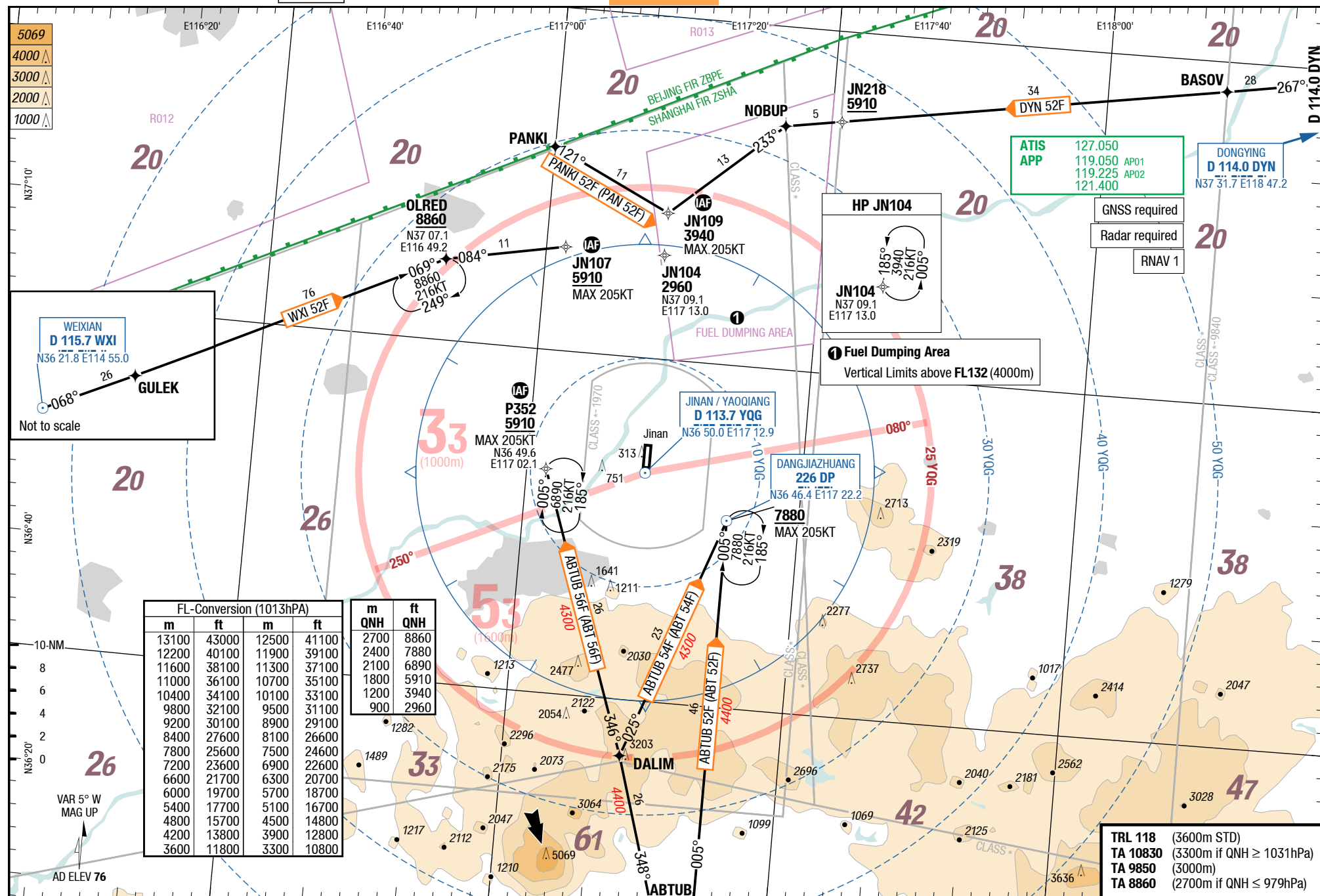
RNAV STARs RWY 19

STAR

STAR

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RNAV STARs RWY 19



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TNA-ZSJN

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STARs RWY 19

STARs RWY 01

STAR

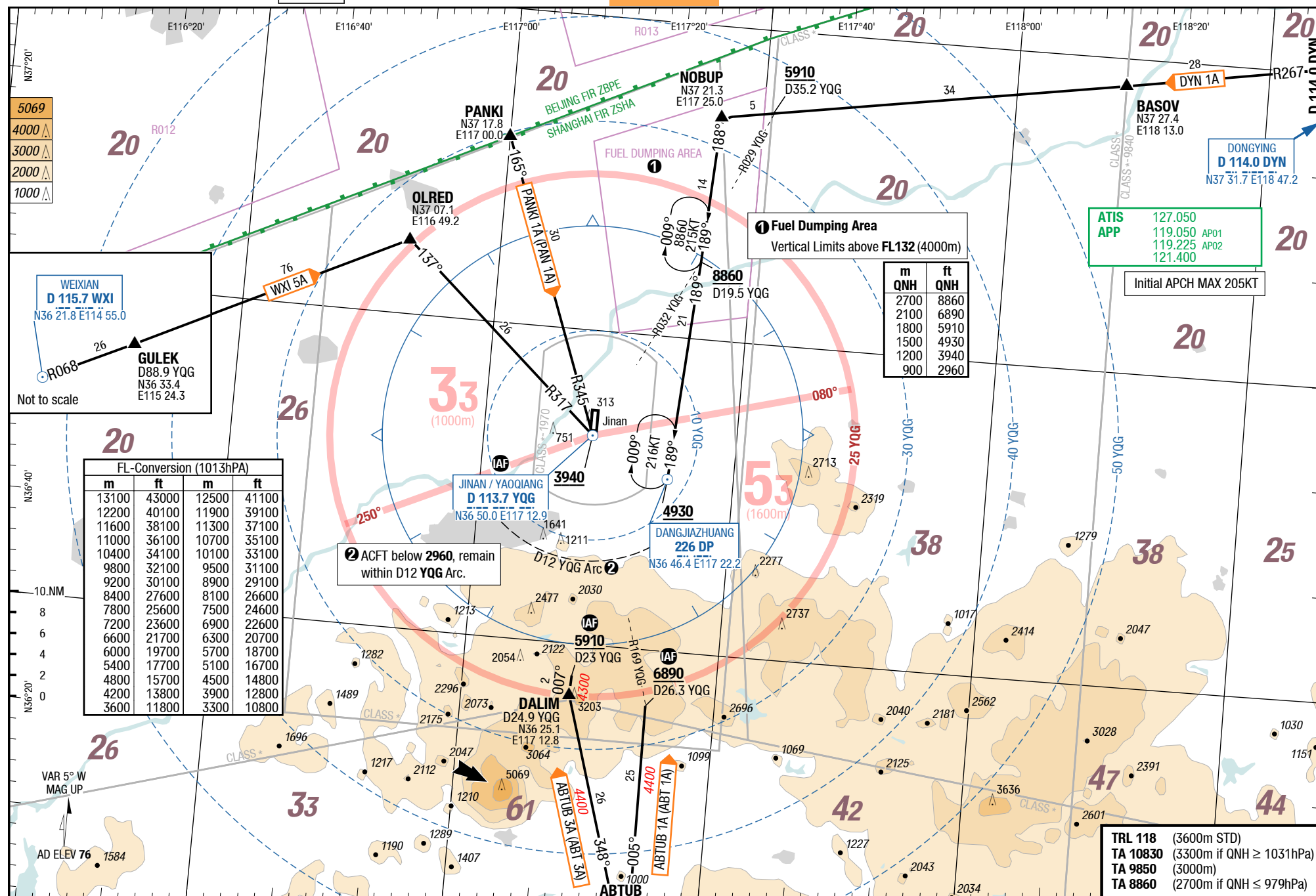
STAR

Yaoqiang Jinan China

STARs RWY 19

STARs RWY 01

6-30



Changes: Completely revised



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STAR

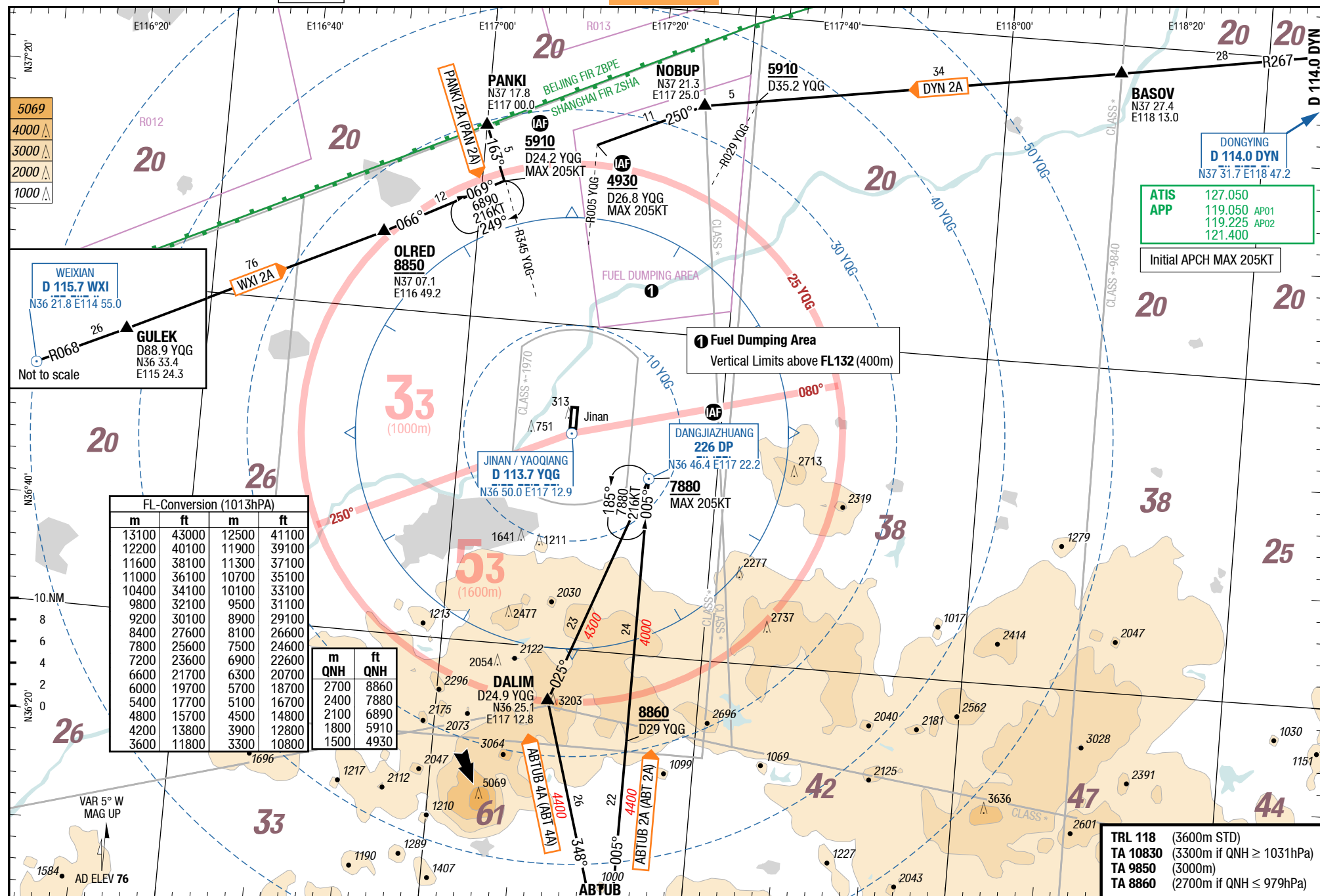
STAR

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STARs RWY 19

STARs RWY 19

6-40



Changes: Completely revised

China **Jinan** Yaoqiang

ILS + DME Y 01

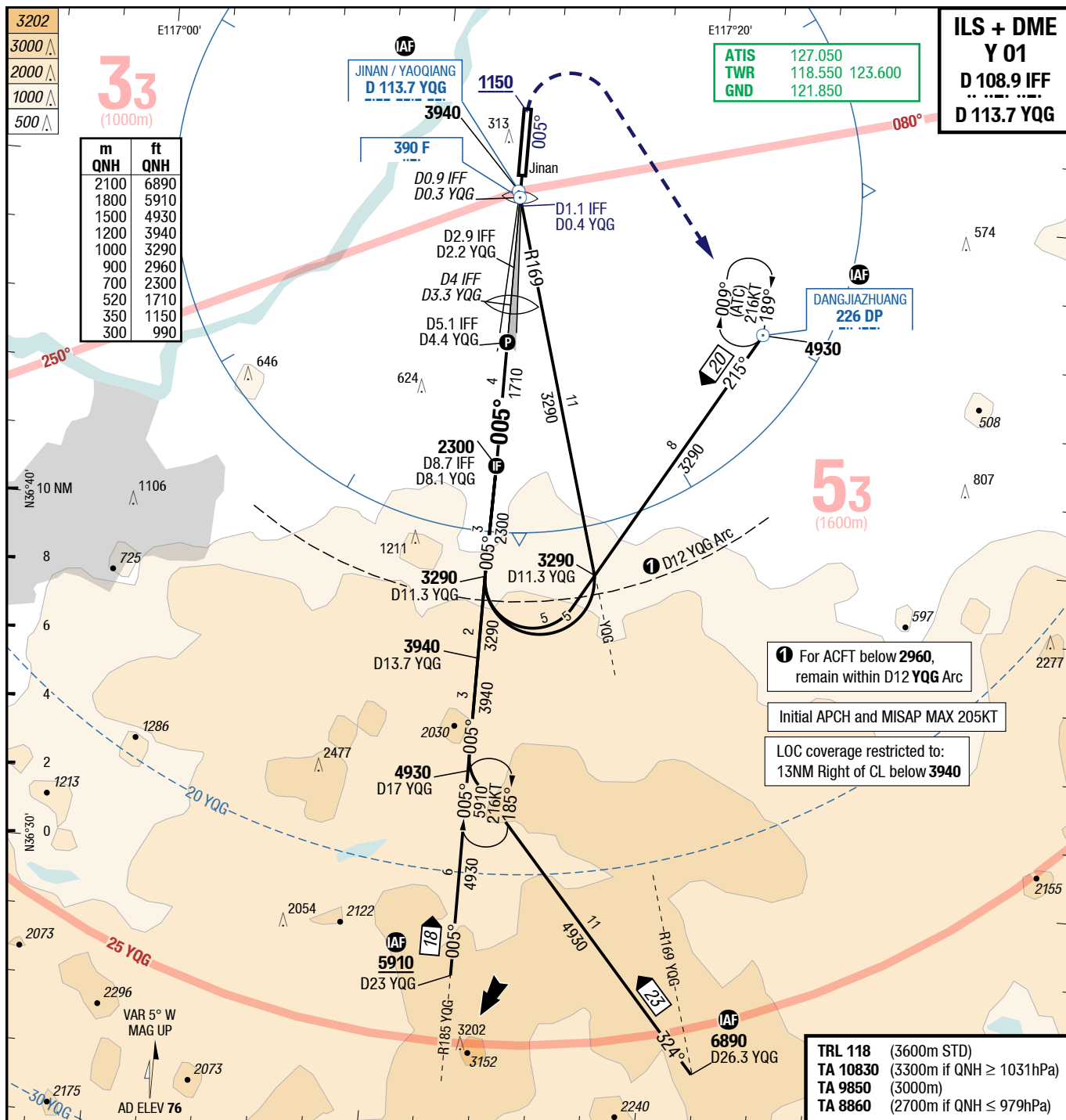
ILS + DME Y 01

ILS + DME Z 01 RNAV

**IAC**

ILS + DME Z 01 RNAV





<b>LOC 3.05°</b>		6.9	6	5	4	3	2	<b>01</b>		3.0°	60 HL	30 HL
<b>D IFF</b>		2300	2020	1690	1370	1050	720	HL-P1F		76 / 3hPa	TDZ ---%	0.0%
		D8.1 YQG	D6.3	D4.4	D3.3	D2.2	D0.4					
		D8.7 IFF	D6.9	D5.1	D4	D2.9	D0.3 YQG					
							D0.9 IFF					

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TNA-ZSJN

7-30

ILS + DME Z 19 RNAV

China Jinan Yaoqiang

ILS + DME Y 19

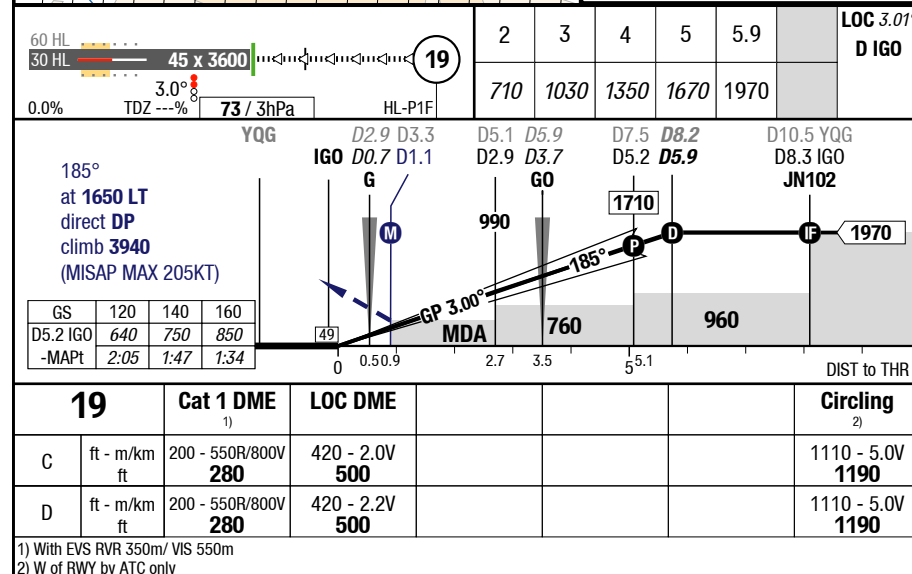
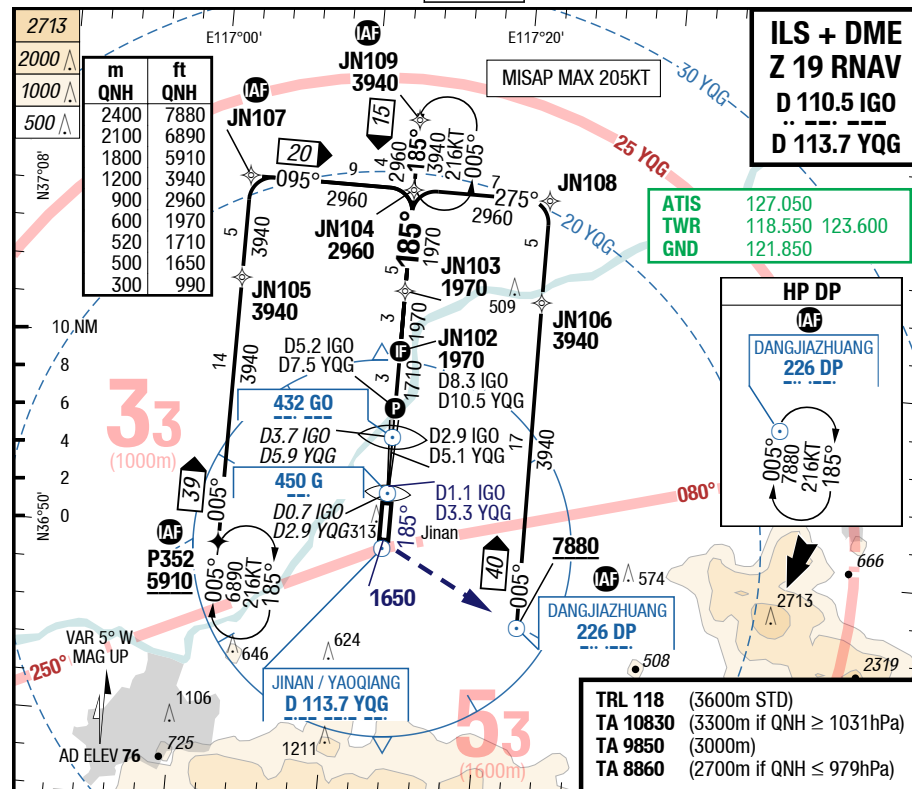
IAC

IAC

Yaoqiang Jinan China

ILS + DME Y 19

ILS + DME Z 19 RNAV



Changes: MIN

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12-JUL-2018

TNA-ZSJN

China Jinan Yaoqiang

IAC

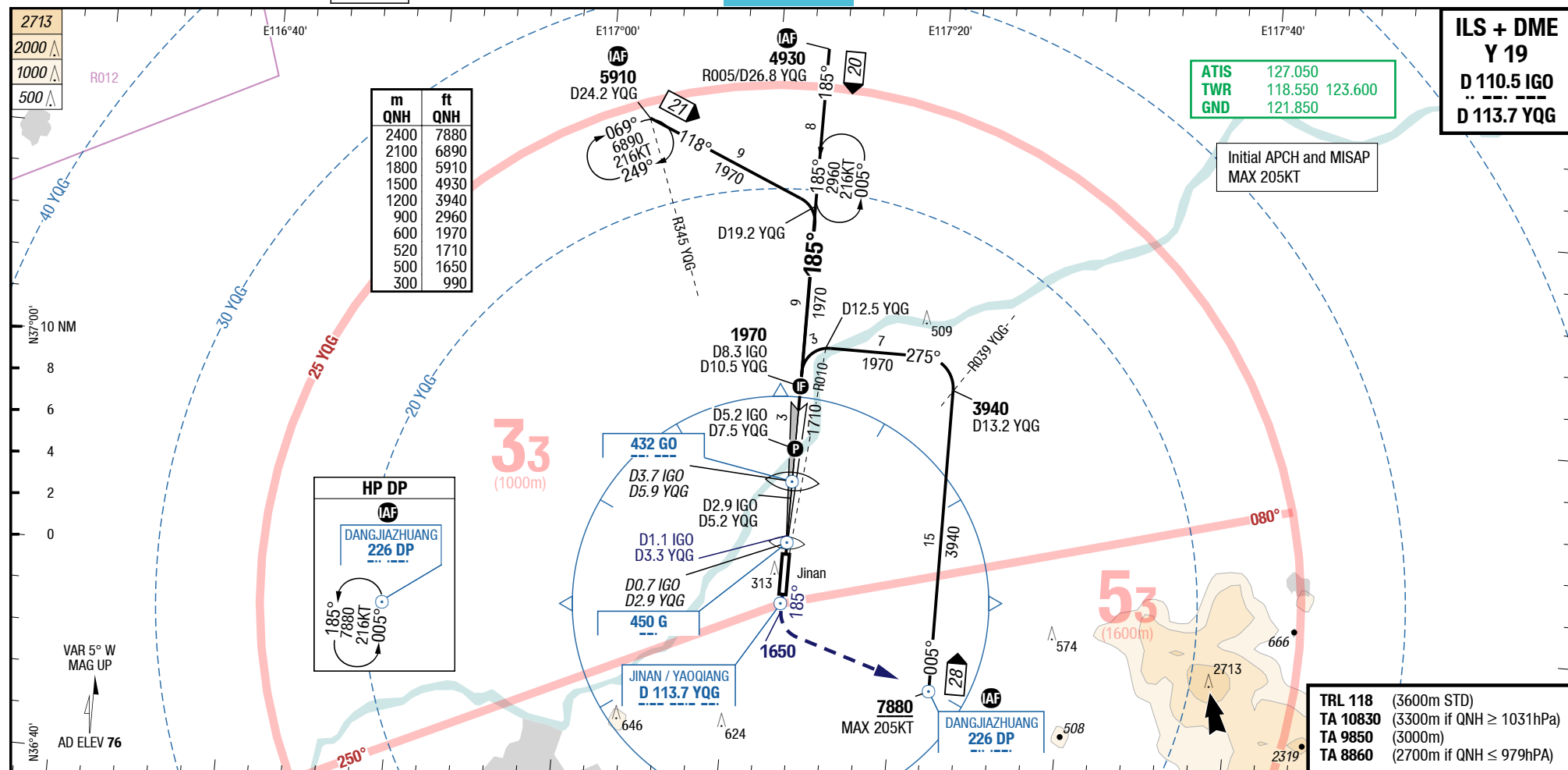
IAC

Yaoqiang Jinan China

ILS + DME Y 19

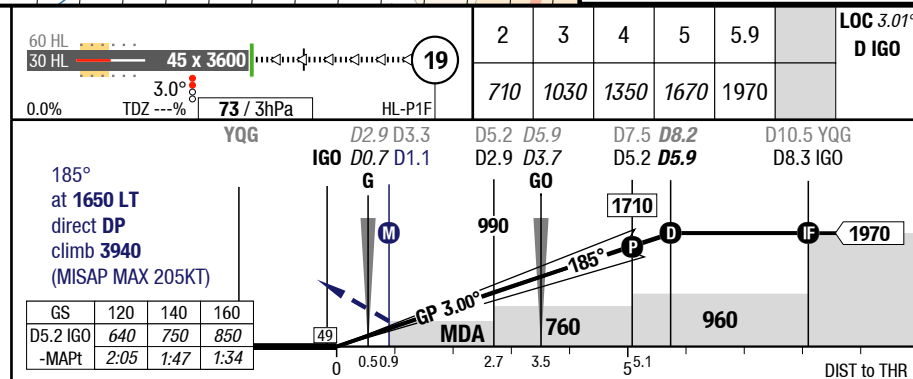
ILS + DME Y 19

7-40



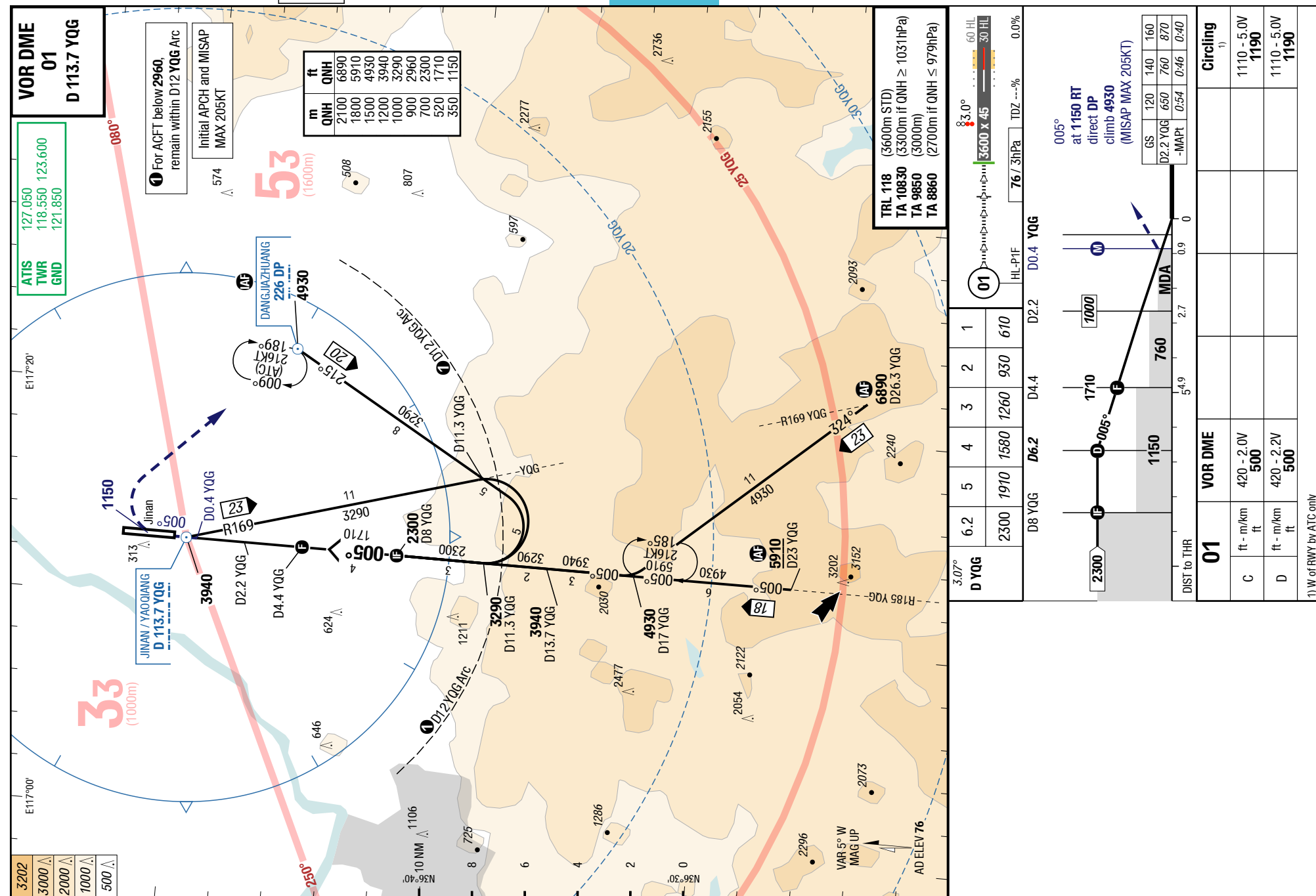
19		Cat 1 DME	LOC DME	Circling	
		1)		2)	
C	ft - m/km ft	200 - 550R/800V 280	420 - 2.0V 500	1110 - 5.0V 1190	
D	ft - m/km ft	200 - 550R/800V 280	420 - 2.2V 500	1110 - 5.0V 1190	

1) With EVS RVR 350m/ VIS 550m  
2) W of RWY by ATC only



Changes: MIN





**TNA-ZSJN**

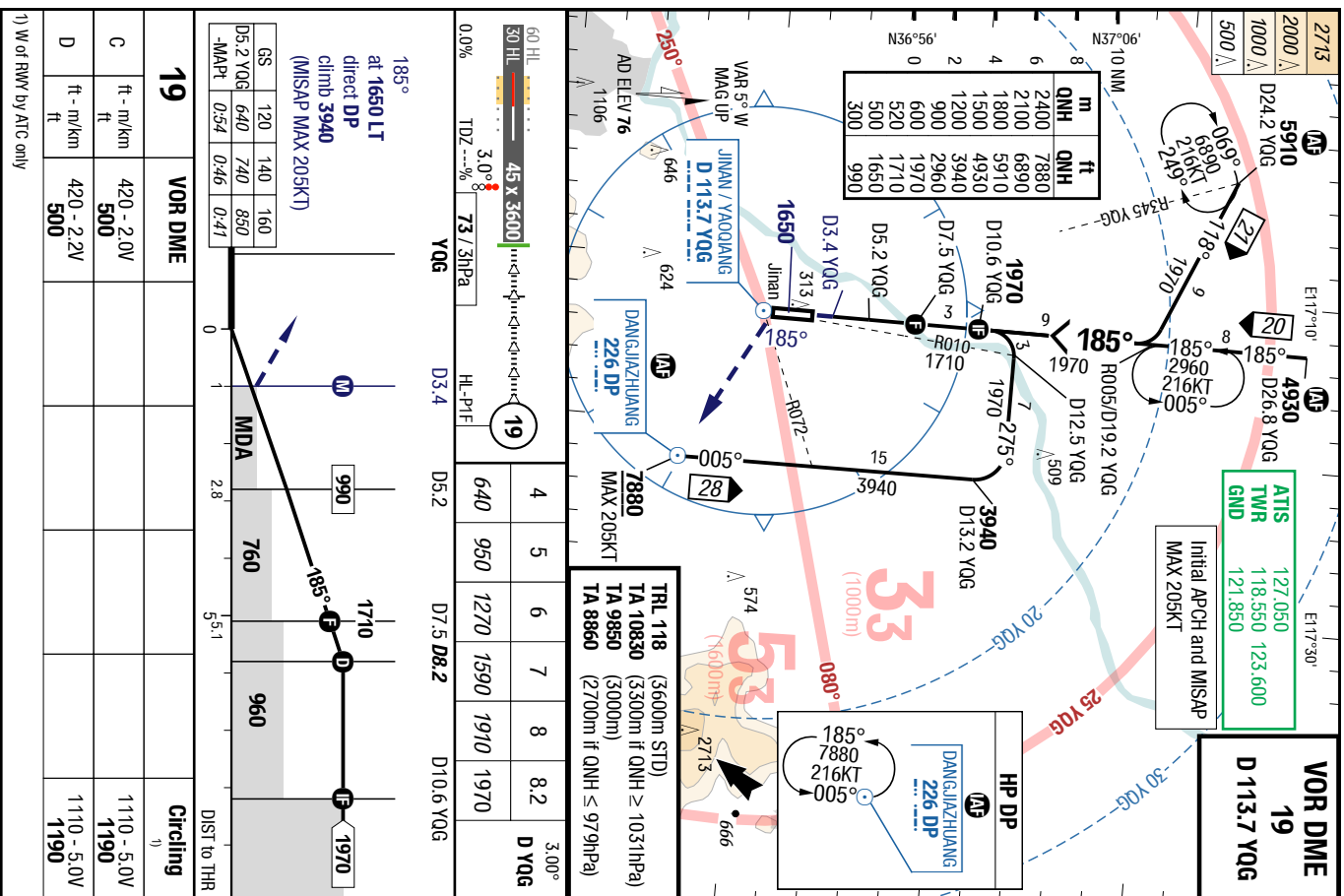
7-60

# VOR DME 19

**IAC**

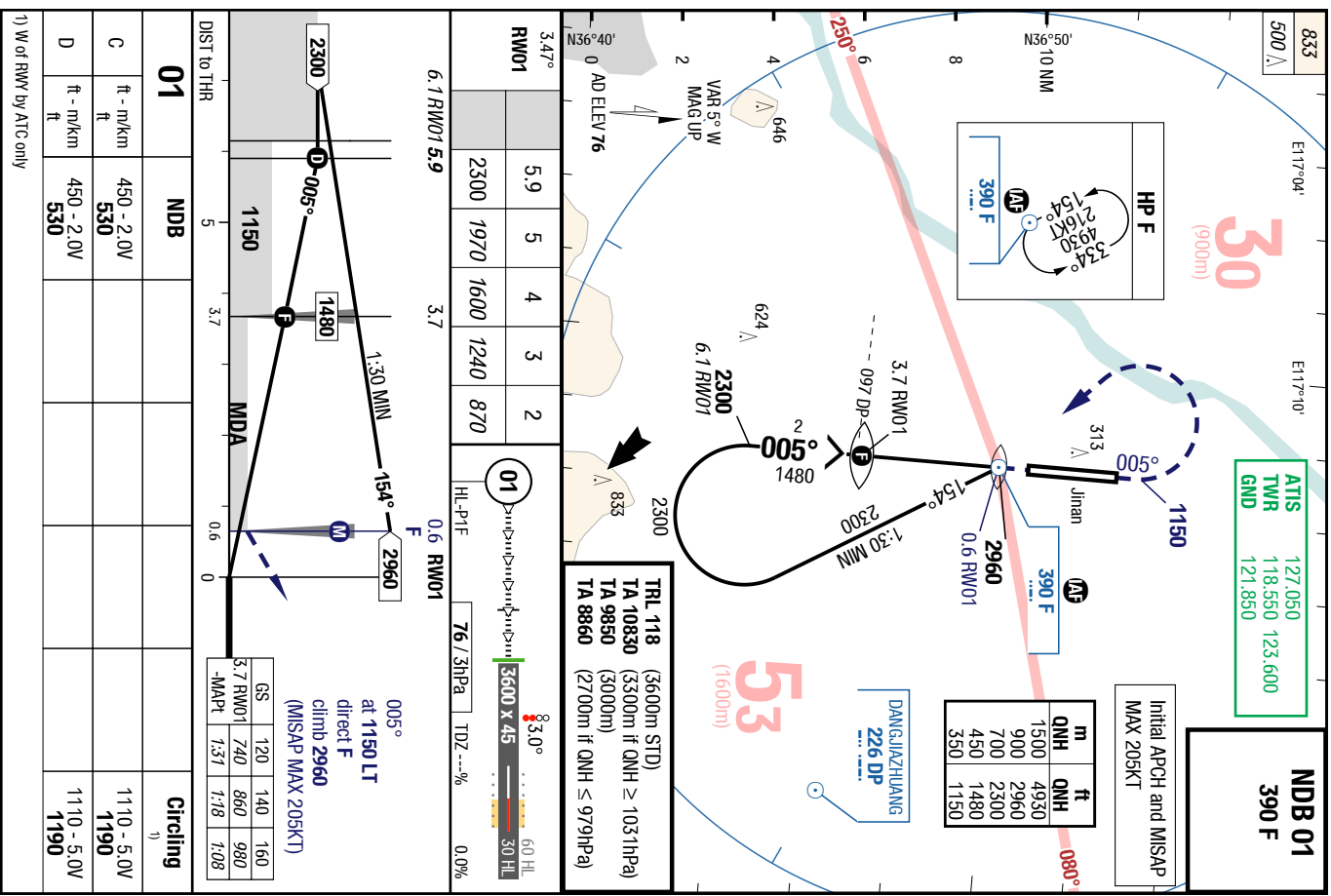
**IAC**

**NDB 01**



Changes: OBST, PROC

# D-LEVELS - SCALF

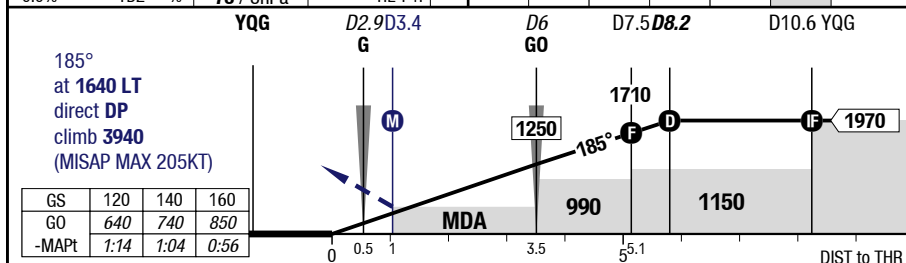
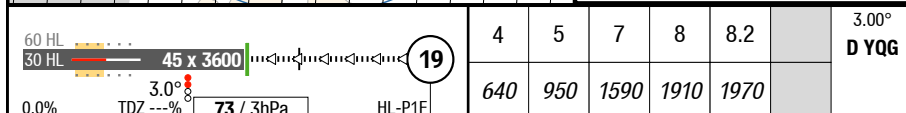
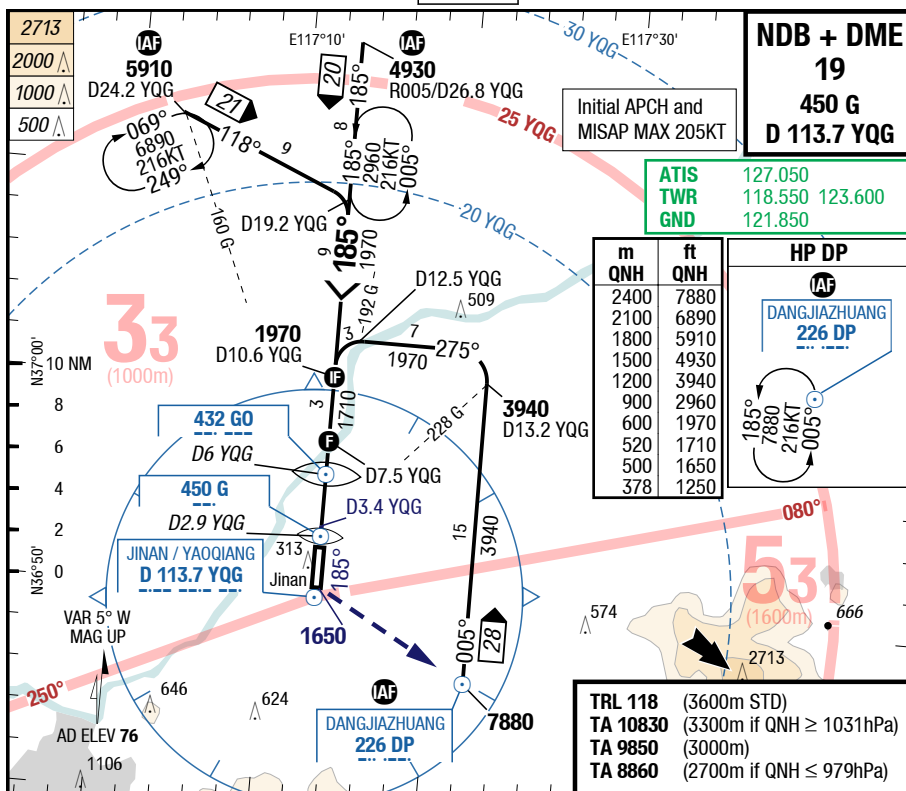


Changes: Nil

TNA-ZSJN

7-70

NDB + DME 19



19	NDB DME YQG					Circling 1)
C	ft - m/km ft	460 - 2.0V 530				1110 - 5.0V 1190
D	ft - m/km ft	460 - 2.0V 530				1110 - 5.0V 1190

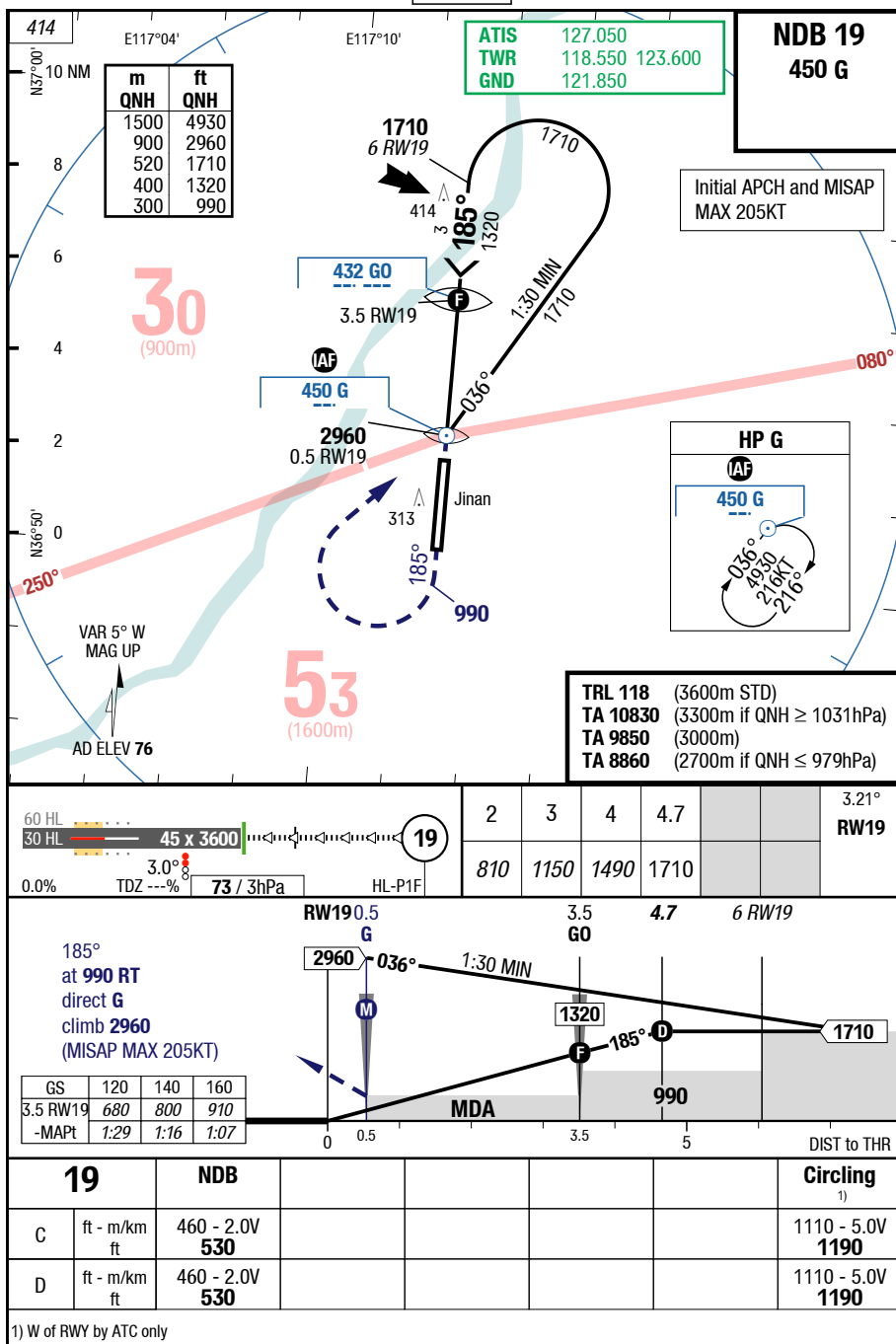
1) W of RWY by ATC only

Changes: Completely revised

TNA-ZSJN

7-80

NDB 19



Changes: MIN, OBST, AD ELEV

**TNA-ZSJN**

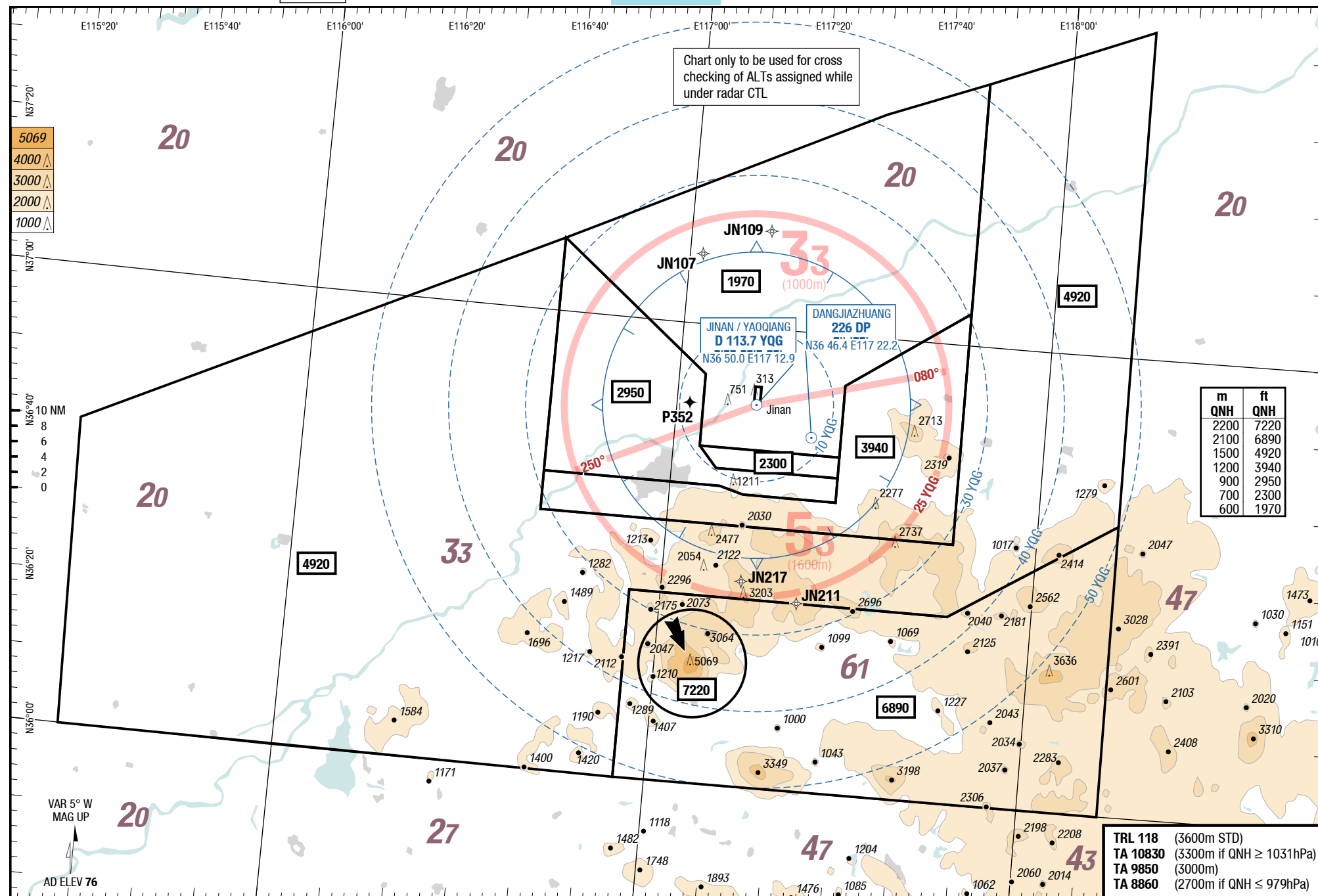
**MRC**

**MRC**

**MRC**

## MRC

8-10



Changes: new

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