AERODROME CHART

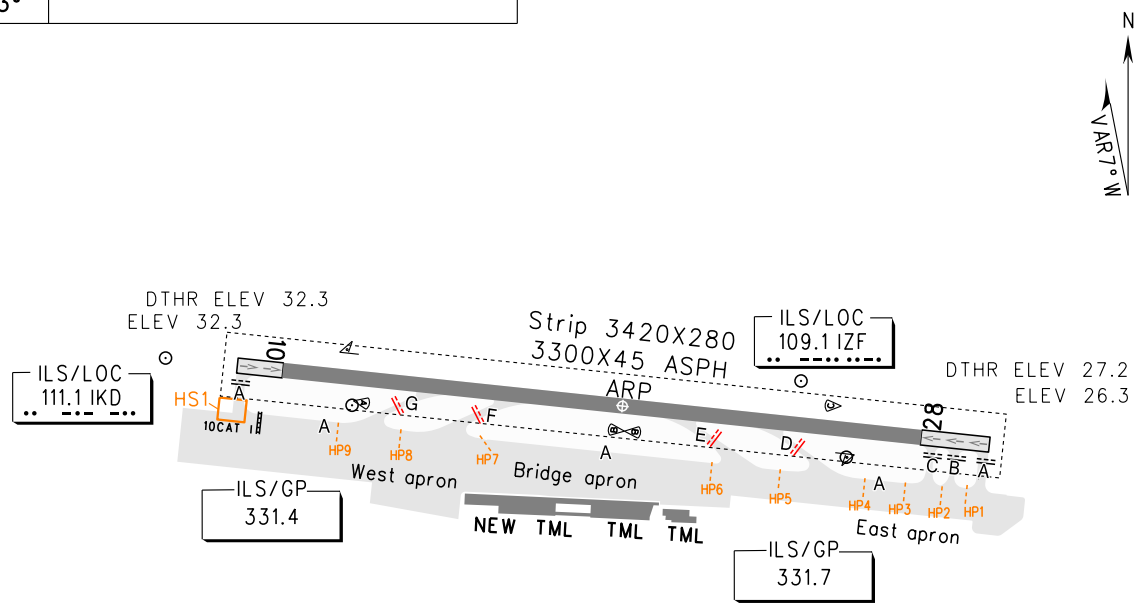
D-ATIS 126.65
TWR 118.25(118.85)
GND 121.65
Delivery 121.85(DCL AVBL)

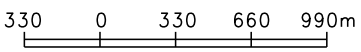
ZYTL DALIAN/Zhoushuizi

N38°58.0'E121°32.4' ELEV 32.6m

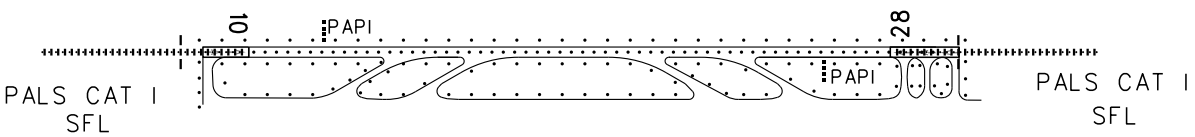
RWY	Direction	Bearing strength
10	103°	PCR 810/R/A/W/T: RWY10/28 ASPH
28	283°	

BEARINGS ARE MAGNETIC.
ALTITUDES, DISTANCES, ELEVATIONS AND HEIGHTS IN METERS.

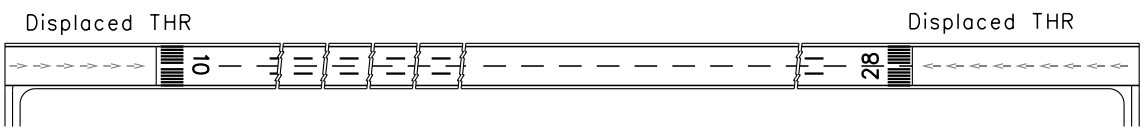




HP1 --- : Intermediate holding position



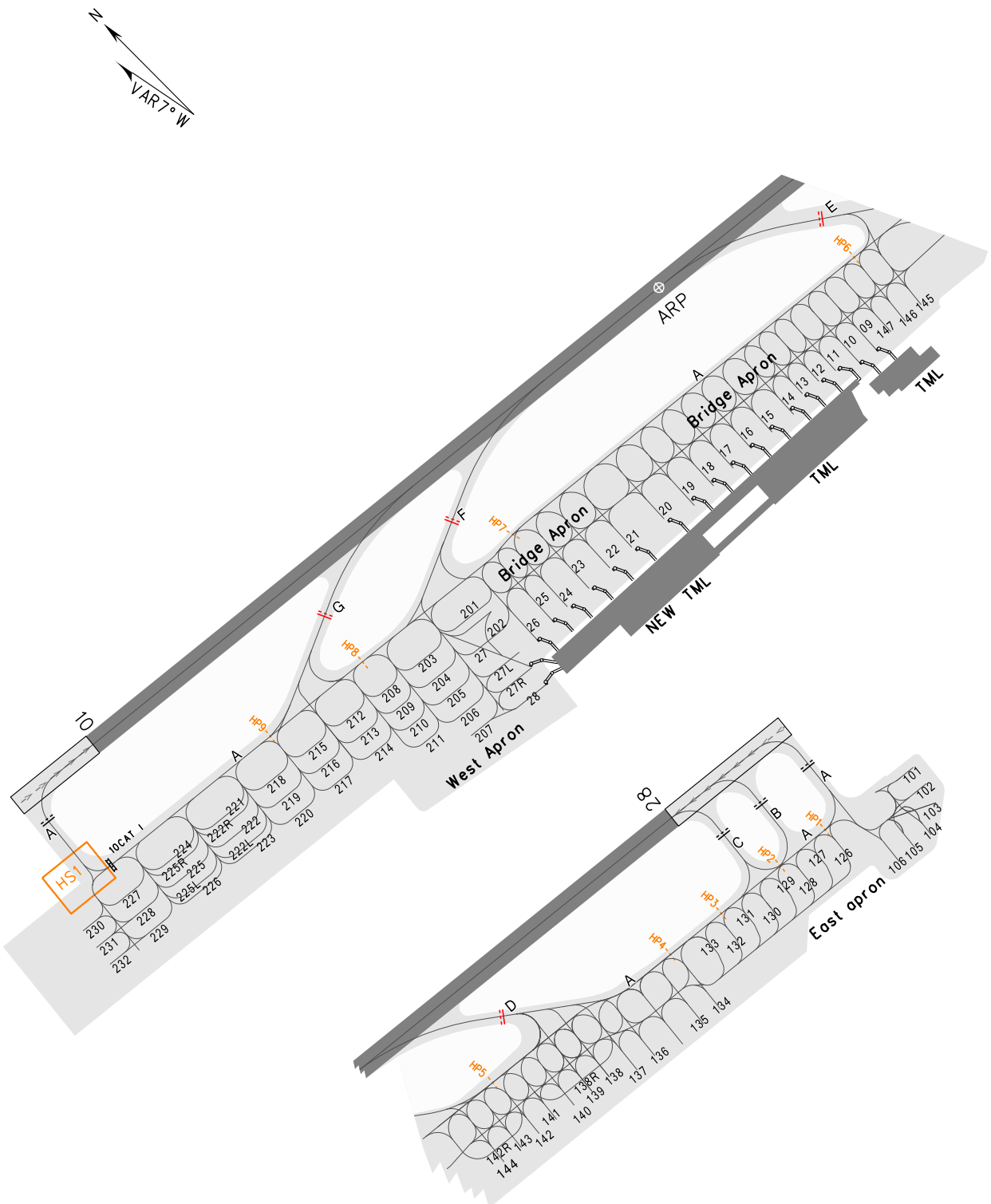
Remarks:
THR10 displaced 200m inwards
THR28 displaced 300m inwards



TAKE-OFF MINIMA(WITH RELIABLE ALTN)(m)						LIGHTS	
ACFT Type		RWY10		RWY28		RWY10	RWY28
		REDL	NIL(Day only)	REDL	NIL(Day only)		
2 TURB ENG or 3&4 ENG	A	RVR400 VIS800	RVR500 VIS800	RVR400 VIS800	RVR500 VIS800	PALS CAT I SFL PAPI REDL RCLL RENL	PALS CAT I SFL PAPI REDL RCLL RENL
	B						
	C						
	D						
Other 1&2 ENG		VIS1600					

Note: RWY28 take-off climb gradient 5.5% or with no limits when VIS>5000m and ceiling>280m.

Changes: Add RWY holding position.

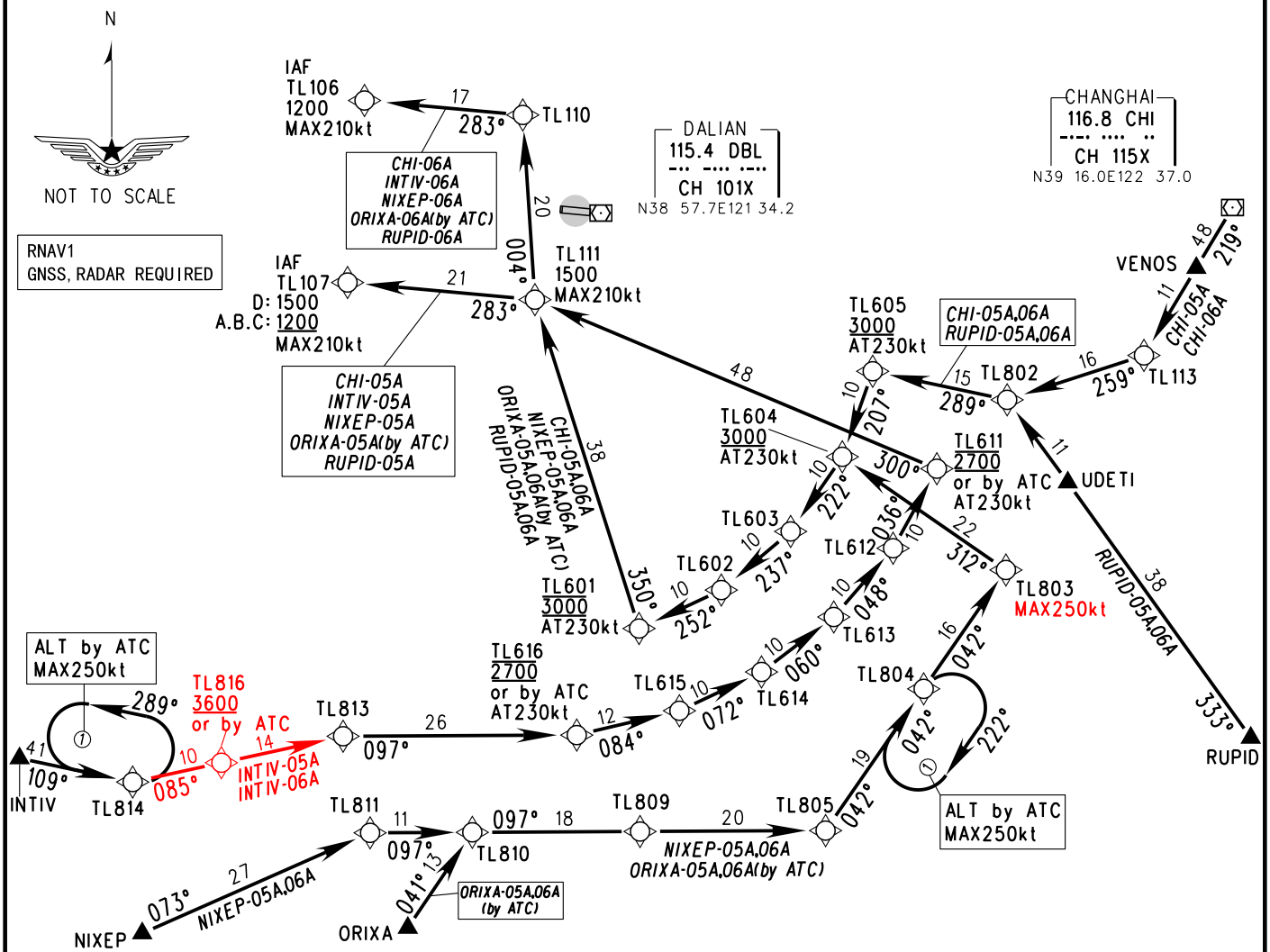


Changes: Add RWY holding position.

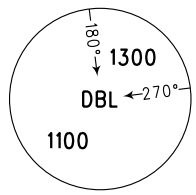
TL 3600
TA 3000
3300(QNH≥1031hPa)
2700(QNH≤979hPa)

PMS operation by ATC

BEARINGS ARE MAGNETIC.
ALTITUDES, ELEVATIONS AND HEIGHTS IN METERS.
DME DISTANCES IN NAUTICAL MILES.
DISTANCES IN KM.



STAR	ROUTING
CHI-05A	CHI-VENOS-TL113-TL802-TL605-TL604-TL603-TL602-TL601-TL111-TL107
CHI-06A	CHI-VENOS-TL113-TL802-TL605-TL604-TL603-TL602-TL601-TL111-TL110-TL106
INTIV-05A	INTIV-TL814-TL816-TL813-TL616-TL615-TL614-TL613-TL612-TL611-TL111-TL107
INTIV-06A	INTIV-TL814-TL816-TL813-TL616-TL615-TL614-TL613-TL612-TL611-TL111-TL110-TL106
NIXEP-05A	NIXEP-TL811-TL810-TL809-TL805-TL804-TL803-TL604-TL603-TL602-TL601-TL111-TL107
NIXEP-06A	NIXEP-TL811-TL810-TL809-TL805-TL804-TL803-TL604-TL603-TL602-TL601-TL111-TL110-TL106
ORIXA-05A (by ATC)	ORIXA-TL810-TL809-TL805-TL804-TL803-TL604-TL603-TL602-TL601-TL111-TL107
ORIXA-06A (by ATC)	ORIXA-TL810-TL809-TL805-TL804-TL803-TL604-TL603-TL602-TL601-TL111-TL110-TL106
RUPID-05A	RUPID-UDETI-TL802-TL605-TL604-TL603-TL602-TL601-TL111-TL107
RUPID-06A	RUPID-UDETI-TL802-TL605-TL604-TL603-TL602-TL601-TL111-TL110-TL106



Notes: 1.When aircraft ALT is 3000m or below, MAX IAS is 250kt.
2.Under radar control service, actual ALT by ATC.
3.Radar vectoring direct to TL111 is available when aircraft in PMS.
4.Maintain IAS 230kt in PMS.

Changes: INTIV-05A, INTIV-06A, TL803 speed limit.

STANDARD ARRIVAL CHART-INSTRUMENT

VAR7° W

D-ATIS	126.65
APP01	123.85(127.95)
APP02	119.6(127.95)
APP03	121.05(127.95)
TWR	118.25(118.85)

ZYTL DALIAN/Zhoushuizi

RNAV RWY28

TL 3600
TA 3000
3300(QNH≥1031hPa)
2700(QNH≤979hPa)

PMS operation by ATC

BEARINGS ARE MAGNETIC.
ALTITUDES, ELEVATIONS AND HEIGHTS IN METERS.
DME DISTANCES IN NAUTICAL MILES.
DISTANCES IN KM.

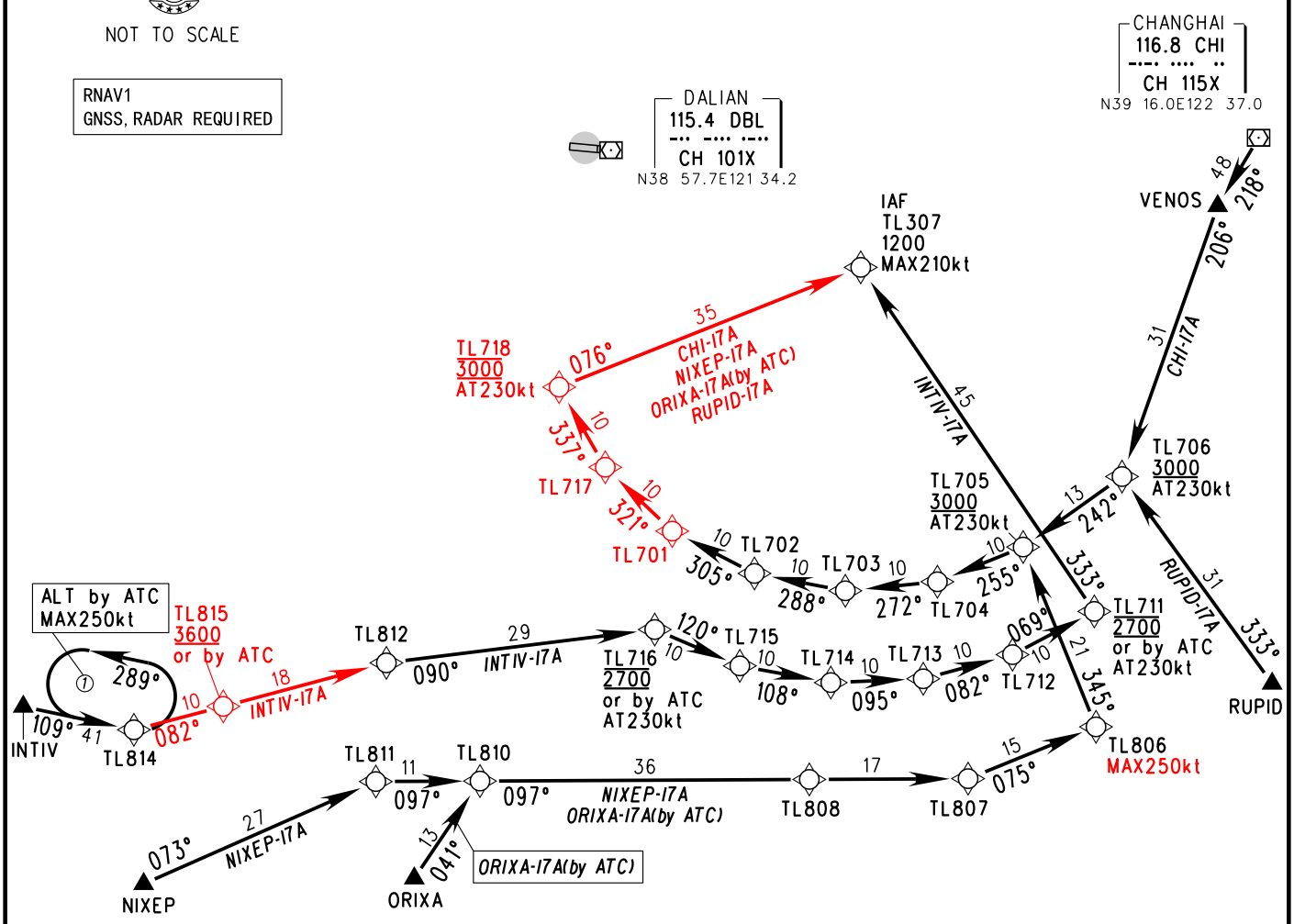
N

NOT TO SCALE

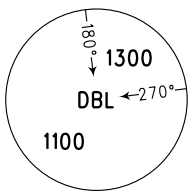
RNAV1
GNSS, RADAR REQUIRED

CHANGHAI
116.8 CHI
CH 115X
N39 16.0E122 37.0

DALIAN
115.4 DBL
CH 101X
N38 57.7E121 34.2



STAR	ROUTING
CHI-17A	CHI-VENOS-TL706-TL705-TL704-TL703-TL702-TL701-TL717-TL718-TL307
INTIV-17A	INTIV-TL814-TL815-TL812-TL716-TL715-TL714-TL713-TL712-TL711-TL307
NIXEP-17A	NIXEP-TL811-TL810-TL808-TL807-TL806-TL705-TL704-TL703-TL702-TL701-TL717-TL718-TL307
ORIXA-17A (by ATC)	ORIXA-TL810-TL808-TL807-TL806-TL705-TL704-TL703-TL702-TL701-TL717-TL718-TL307
RUPID-17A	RUPID-TL706-TL705-TL704-TL703-TL702-TL701-TL717-TL718-TL307



MSA 46km

Notes:
1.When aircraft ALT is 3000m or below, MAX IAS is 250kt.
2.Under radar control service, actual ALT by ATC.
3.Radar vectoring direct to TL307 is available when aircraft in PMS.
4.Maintain IAS 230kt in PMS
5.After TL307, fly to TL303 join approach procedure.

Changes: INTIV-17A, NIXEP-17A, ORIXA-17A(by ATC), RUPID-17A, CHI-17A, TL806 speed limit, Notes.

STANDARD ARRIVAL CHART-INSTRUMENT

VAR7° W

D-ATIS 126.65
APP01 123.85(127.95)
APP02 119.6(127.95)
APP03 121.05(127.95)
TWR 118.25(118.85)

ZYTL DALIAN/Zhoushuizi

RNAV RWY28(INTIV/NIXEP/ORIXA)

BEARINGS ARE MAGNETIC.
ALTITUDES, ELEVATIONS AND HEIGHTS IN METERS.
DME DISTANCES IN NAUTICAL MILES.
DISTANCES IN KM.

TL 3600
TA 3000
3300(QNH≥1031hPa)
2700(QNH≤979hPa)

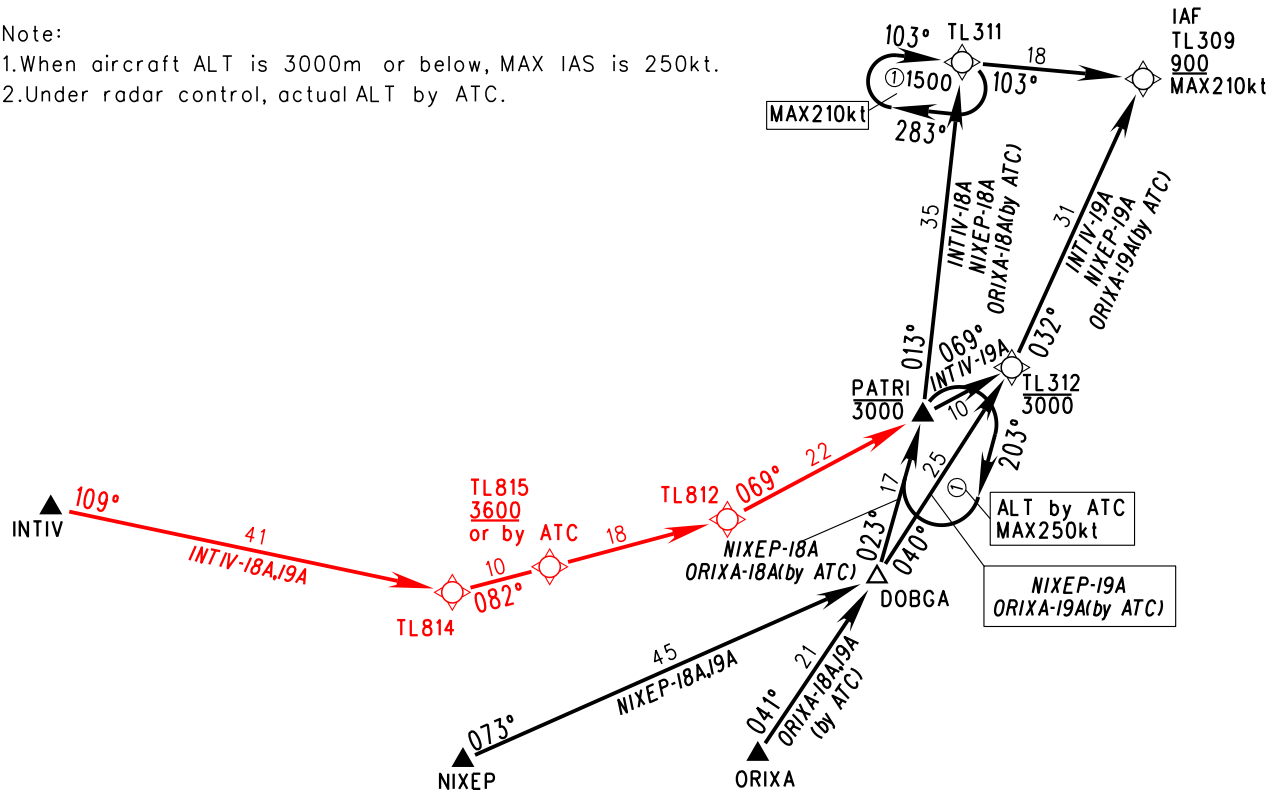
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NOT TO SCALE

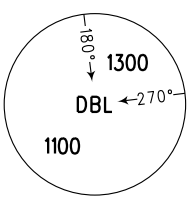
RNAV1
GNSS, RADAR REQUIRED

DALIAN
115.4 DBL
CH 101X
N38 57.7E121 34.2

Note:
1.When aircraft ALT is 3000m or below, MAX IAS is 250kt.
2.Under radar control, actual ALT by ATC.



STAR	ROUTING
INTIV-18A	INTIV-TL814-TL815-TL812-PATRI-TL311-TL309
INTIV-19A	INTIV-TL814-TL815-TL812-PATRI-TL312-TL309
NIXEP-18A	NIXEP-DOBGA-PATRI-TL311-TL309
NIXEP-19A	NIXEP-DOBGA-TL312-TL309
ORIXA-18A (by ATC)	ORIXA-DOBGA-PATRI-TL311-TL309
ORIXA-19A (by ATC)	ORIXA-DOBGA-TL312-TL309



MSA 46km

Changes: INTIV-18A, INTIV-19A.

STANDARD ARRIVAL CHART-INSTRUMENT

VAR7° W

D-ATIS 126.65
APP01 123.85(127.95)
APP02 119.6(127.95)
APP03 121.05(127.95)
TWR 118.25(118.85)

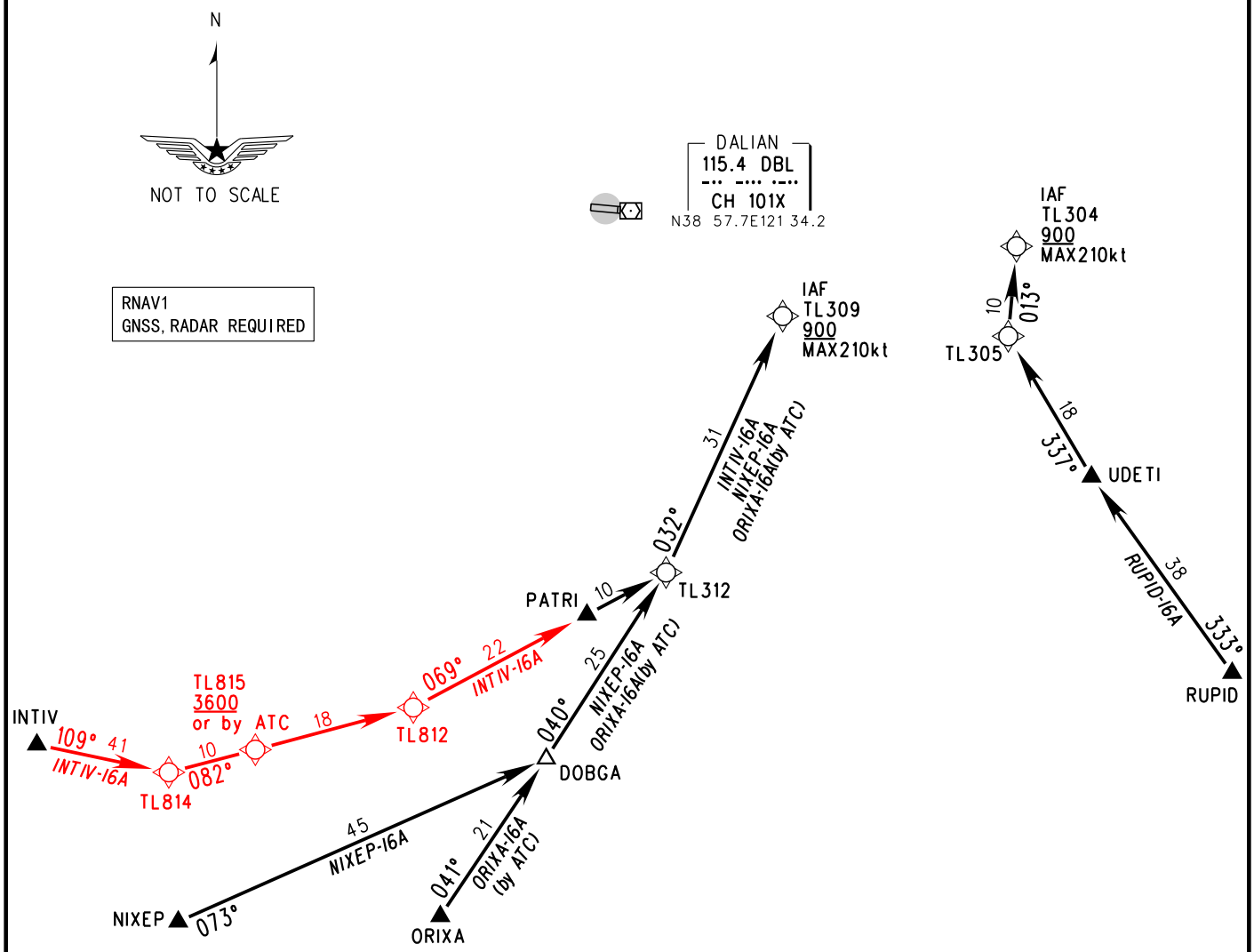
ZYTL DALIAN/Zhoushuizi

RNAV RWY28

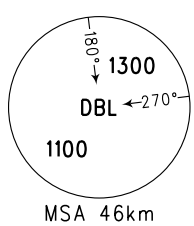
TL 3600
TA 3000
3300(QNH≥1031hPa)
2700(QNH≤979hPa)

Only used for CDO

BEARINGS ARE MAGNETIC.
ALTITUDES, ELEVATIONS AND HEIGHTS IN METERS.
DME DISTANCES IN NAUTICAL MILES.
DISTANCES IN KM.



STAR	ROUTING
INTIV-16A	INTIV-TL814-TL815-TL812-PATRI-TL312-TL309
NIXEP-16A	NIXEP-DOBGA-TL312-TL309
ORIXA-16A (by ATC)	ORIXA-DOBGA-TL312-TL309
RUPID-16A	RUPID-UDETI-TL305-TL304



Notes: 1.When aircraft ALT is 3000m or below, MAX IAS is 250kt.
2.Under radar control service, actual ALT by ATC.
3.CDO operation by ATC.

Changes: INTIV-16A.

STANDARD ARRIVAL CHART-INSTRUMENT

VAR7° W

D-ATIS 126.65
APP01 123.85(127.95)
APP02 119.6(127.95)
APP03 121.05(127.95)
TWR 118.25(118.85)

ZYTL DALIAN/Zhoushuizi

RNAV RWY10(CHI/RUPID)

BEARINGS ARE MAGNETIC.
ALTITUDES, ELEVATIONS AND HEIGHTS IN METERS.
DME DISTANCES IN NAUTICAL MILES.
DISTANCES IN KM.

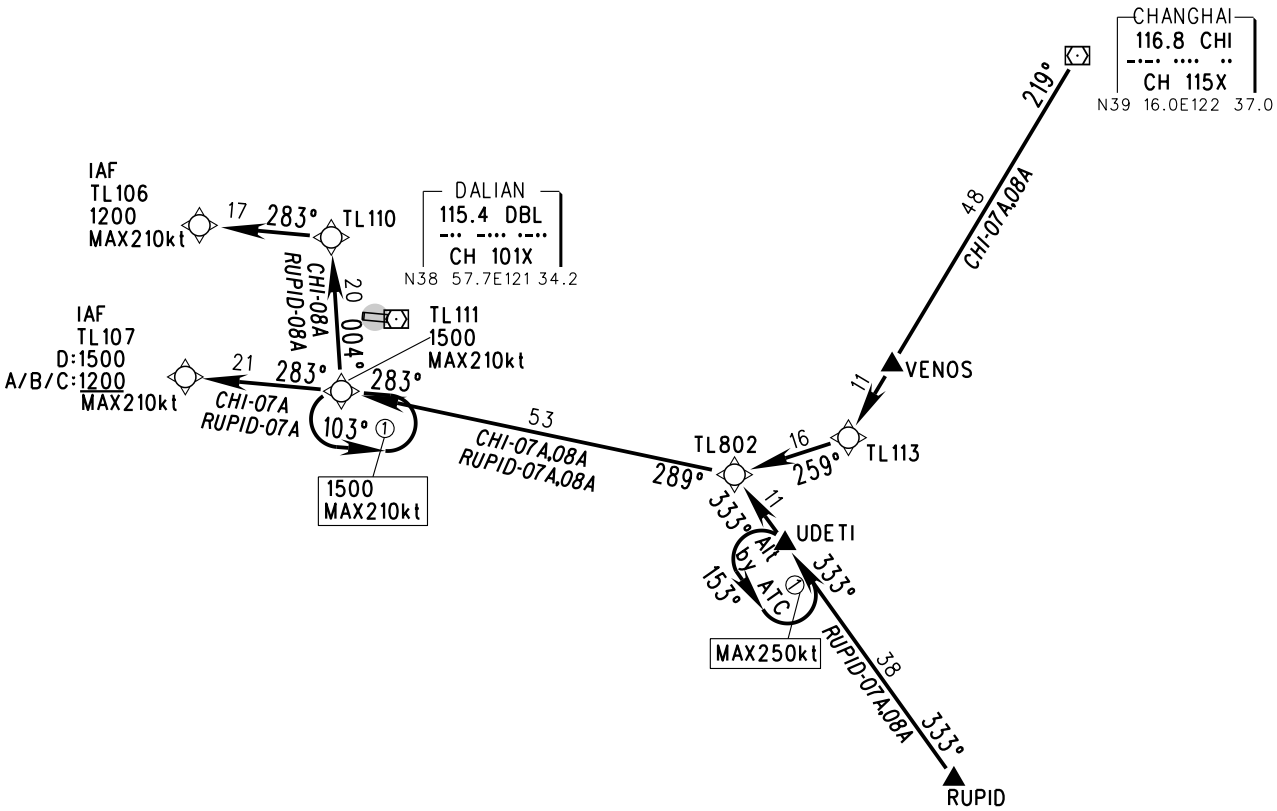
TL 3600
TA 3000
3300(QNH ⩾1031hPa)
2700(QNH ⩽979hPa)

N

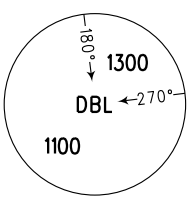
NOT TO SCALE

RNAV1
GNSS, RADAR REQUIRED

Note:
1.When aircraft ALT is 3000m or below, MAX IAS is 250kt.
2.DUAL GNSS&IRU required for RWY10 RNP AR PROCEDURE.
3.Under radar control, actual ALT by ATC.



STAR	ROUTING
CHI-07A	CHI-VENOS-TL113-TL802-TL111-TL107
CHI-08A	CHI-VENOS-TL113-TL802-TL111-TL110-TL106
RUPID-07A	RUPID-UDETI-TL802-TL111-TL107
RUPID-08A	RUPID-UDETI-TL802-TL111-TL110-TL106



MSA 46km

Changes: Delete ALT limit at UDETI.

STANDARD ARRIVAL CHART-INSTRUMENT

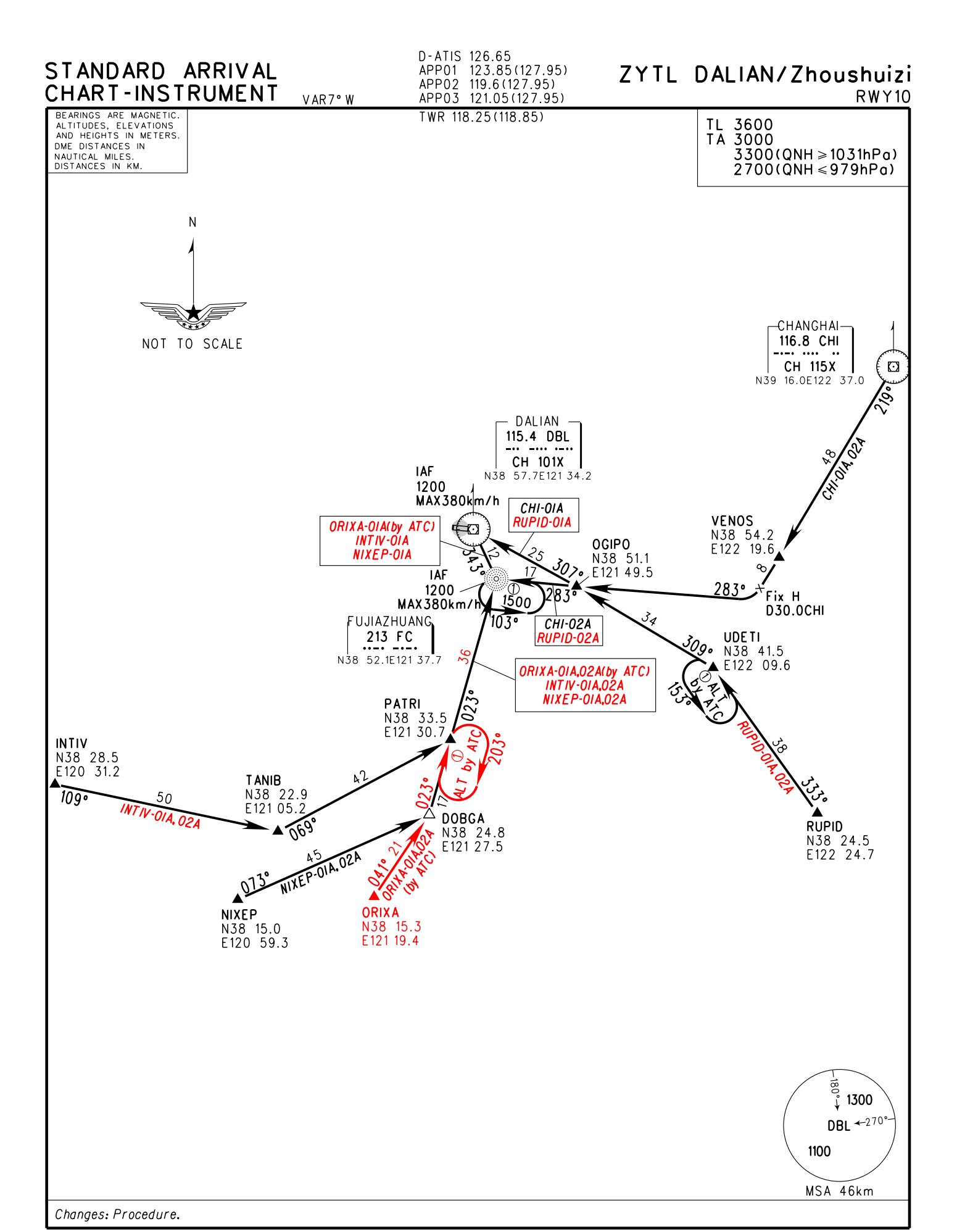
VAR7° W

D-ATIS 126.65
APP01 123.85(127.95)
APP02 119.6(127.95)
APP03 121.05(127.95)
TWR 118.25(118.85)

ZYTL DALIAN/Zhoushuizi
RWY10

BEARINGS ARE MAGNETIC.
ALTITUDES, ELEVATIONS AND HEIGHTS IN METERS.
DME DISTANCES IN NAUTICAL MILES.
DISTANCES IN KM.

TL 3600
TA 3000
3300(QNH≥1031hPa)
2700(QNH≤979hPa)



Changes: Procedure.

STANDARD ARRIVAL CHART-INSTRUMENT

VAR7° W

D-ATIS 126.65
APP01 123.85(127.95)
APP02 119.6(127.95)
APP03 121.05(127.95)
TWR 118.25(118.85)

ZYTL DALIAN/Zhoushuizi
RNAV RWY10(INTIV/NIXEP/ORIXA)

BEARINGS ARE MAGNETIC.
ALTITUDES, ELEVATIONS AND HEIGHTS IN METERS.
DME DISTANCES IN NAUTICAL MILES.
DISTANCES IN KM.

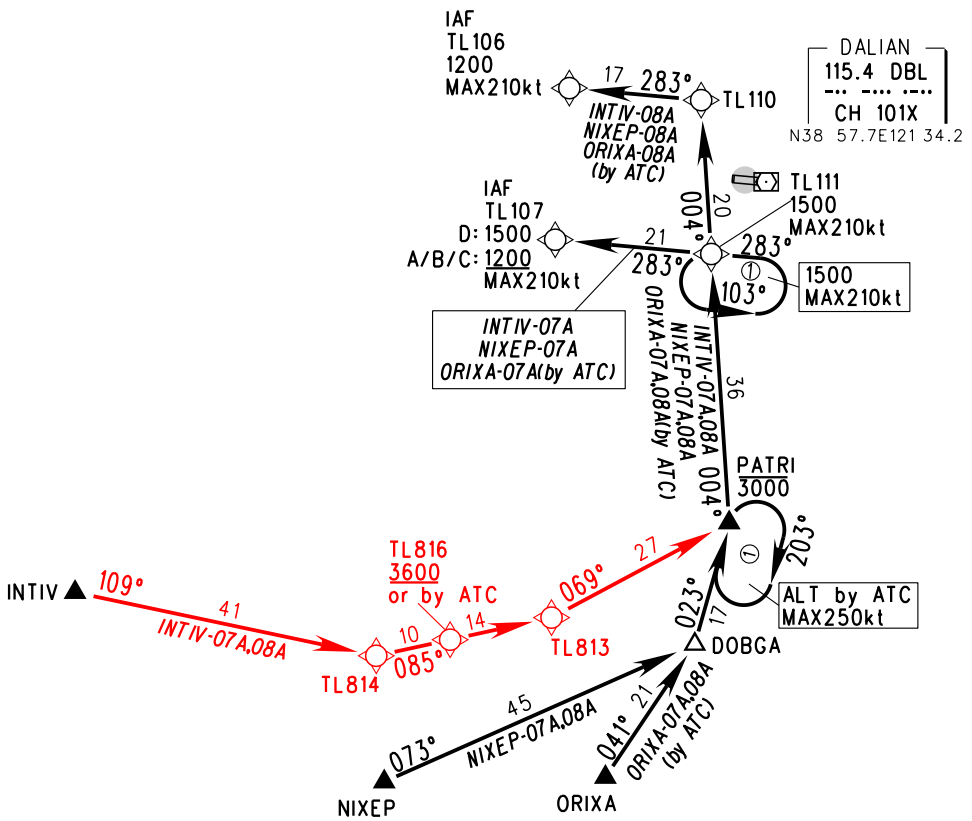
TL 3600
TA 3000
3300(QNH≥1031hPa)
2700(QNH≤979hPa)

Note:
1.When aircraft ALT is 3000m or below, MAX IAS is 250kt.
2.DUAL GNSS&IRU required for RWY10 RNP AR PROCEDURE.
3.Under radar control, actual ALT by ATC.

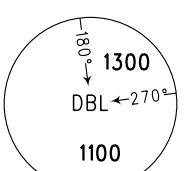
N

NOT TO SCALE

RNAV1
GNSS, RADAR REQUIRED



STAR	ROUTING
INTIV-07A	INTIV-TL814-TL816-TL813-PATRI-TL111-TL107
INTIV-08A	INTIV-TL814-TL816-TL813-PATRI-TL111-TL110-TL106
NIXEP-07A	NIXEP-DOBGA-PATRI-TL111-TL107
NIXEP-08A	NIXEP-DOBGA-PATRI-TL111-TL110-TL106
ORIXA-07A (by ATC)	ORIXA-DOBGA-PATRI-TL111-TL107
ORIXA-08A (by ATC)	ORIXA-DOBGA-PATRI-TL111-TL110-TL106



MSA 46km

Changes: INTIV-07A, INTIV-08A.

STANDARD ARRIVAL CHART-INSTRUMENT

VAR7° W

D-ATIS 126.65
APP01 123.85(127.95)
APP02 119.6(127.95)
APP03 121.05(127.95)
TWR 118.25(118.85)

ZYTL DALIAN/Zhoushuizi

RNAV RWY28 (CHI/RUPID)

BEARINGS ARE MAGNETIC.
ALTITUDES, ELEVATIONS AND HEIGHTS IN METERS.
DME DISTANCES IN NAUTICAL MILES.
DISTANCES IN KM.

TL 3600
TA 3000
3300(QNH ⩾1031hPa)
2700(QNH ⩽979hPa)

N

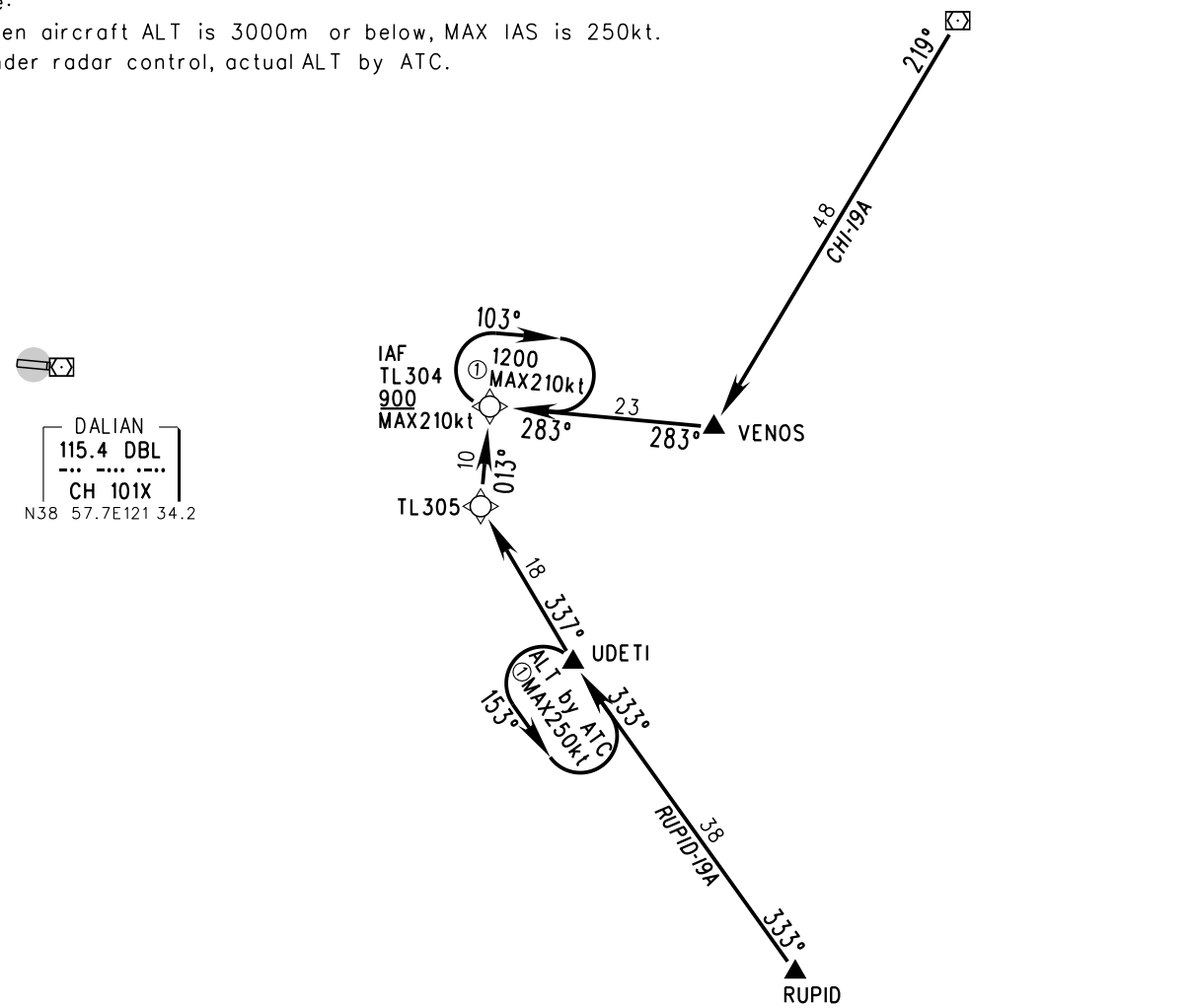
NOT TO SCALE

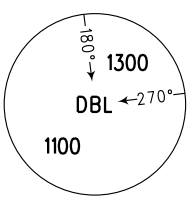
RNAV1
GNSS, RADAR REQUIRED

Note:
1.When aircraft ALT is 3000m or below, MAX IAS is 250kt.
2.Under radar control, actual ALT by ATC.

CHANGHAI
116.8 CHI
CH 115X
N39 16.0E122 37.0

DALIAN
115.4 DBL
CH 101X
N38 57.7E121 34.2





MSA 46km

STAR	ROUTING
CHI-19A	CHI-VENOS-TL304
RUPID-19A	RUPID-UDETI-TL305-TL304

Changes: Delete ALT limit at UDETI.

STANDARD ARRIVAL CHART-INSTRUMENT

VAR7° W

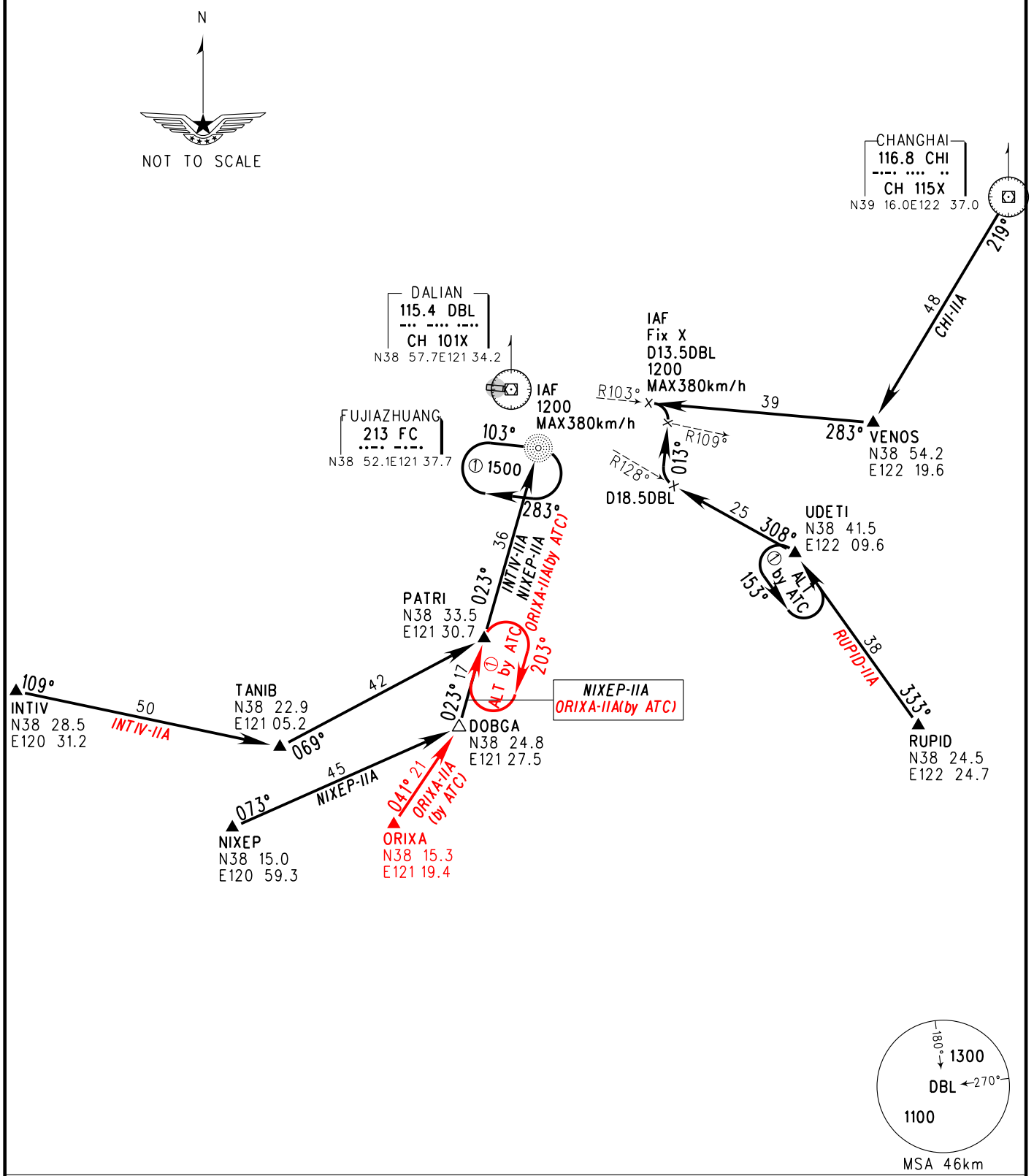
D-ATIS 126.65
APP01 123.85(127.95)
APP02 119.6(127.95)
APP03 121.05(127.95)
TWR 118.25(118.85)

ZYTL DALIAN/Zhoushuizi

RWY28

BEARINGS ARE MAGNETIC.
ALTITUDES, ELEVATIONS AND HEIGHTS IN METERS.
DME DISTANCES IN NAUTICAL MILES.
DISTANCES IN KM.

TL 3600
TA 3000
3300(QNH ⩾1031hPa)
2700(QNH ⩽979hPa)



Changes: Procedure.

STANDARD ARRIVAL CHART-INSTRUMENT

VAR7° W

D-ATIS 126.65
APP01 123.85(127.95)
APP02 119.6(127.95)
APP03 121.05(127.95)
TWR 118.25(118.85)

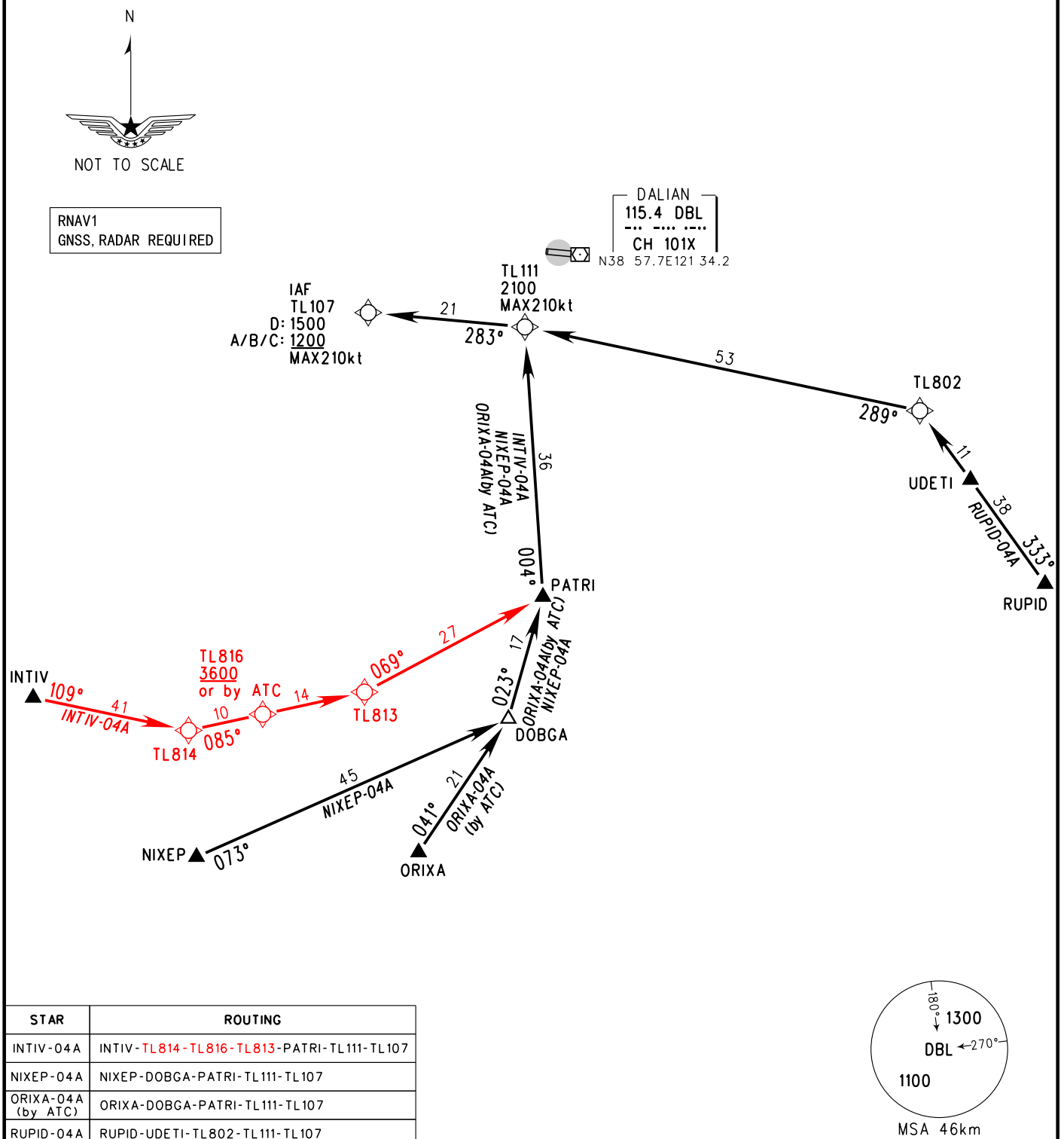
ZYTL DALIAN/Zhoushuizi

RNAV RWY10

TL 3600
TA 3000
3300(QNH≥1031hPa)
2700(QNH≤979hPa)

Only used for CDO

BEARINGS ARE MAGNETIC.
ALTITUDES, ELEVATIONS AND HEIGHTS IN METERS.
DME DISTANCES IN NAUTICAL MILES.
DISTANCES IN KM.



STAR	ROUTING
INTIV-04A	INTIV-TL814-TL816-TL813-PATRI-TL111-TL107
NIXEP-04A	NIXEP-DOBGA-PATRI-TL111-TL107
ORIXA-04A (by ATC)	ORIXA-DOBGA-PATRI-TL111-TL107
RUPID-04A	RUPID-UDETI-TL802-TL111-TL107

Notes: 1.When aircraft ALT is 3000m or below, MAX IAS is 250kt.
2.Under radar control service, actual ALT by ATC.
3.CDO operation by ATC.

Changes: INTIV-04A.

STANDARD DEPARTURE CHART-INSTRUMENT

VAR7° W

D-ATIS 126.65
TWR 118.25(118.85)

ZYTL DALIAN/Zhoushuizi

RNAV RWY10

BEARINGS ARE MAGNETIC.
ALTITUDES, ELEVATIONS AND HEIGHTS IN METERS.
DME DISTANCES IN NAUTICAL MILES.
DISTANCES IN KM.

APP01 123.85(127.95)
APP02 119.6(127.95)
APP03 121.05(127.95)

TL 3600
TA 3000
3300(QNH≥1031hPa)
2700(QNH≤979hPa)

N

NOT TO SCALE

RNAV1
GNSS, RADAR REQUIRED

CHANGHAI
116.8 CHI
CH 115X
N39 16.0E122 37.0

DALIAN
115.4 DBL
CH 101X
N38 57.7E121 34.2

TL203
2700

TL202

TL201
800

TL205

TL206
3900

TL208
3900

VENOS
4200

EKULI
6600

ORAVA

BUBLO

KARPI

POVAG

SANKO

18
283°
013°
10
189°
10
103°
103°
51
CHI-08D
CHI-09D
048°
22
214°
16
5%
16
142°
149°
42
ORAVA-09D
KARPI-09D
34
56
ORAVA-09D
290°
240°
54
KARPI-09D
82
SANKO-09D
18
108°

180°
1300
DBL
270°
1100
MSA 46km

SID	ROUTING
CHI-08D	TL201-VENOS-CHI
CHI-09D	TL201-TL202-TL203-TL205-TL201-VENOS-CHI
SANKO-09D	TL201-TL202-TL203-TL205-TL208-POVAG-SANKO
KARPI-09D	TL201-TL202-TL203-TL206-EKULI-KARPI
ORAVA-09D	TL201-TL202-TL203-TL206-EKULI-BUBLO-ORAVA

Note: 1. A close-in obstacle: 1959m on MAG098° Of ARP, altitude 46.5m.
2. When aircraft ALT is 3000m or below, MAX IAS is 250kt.
3. CCO operation by ATC for *ORAVA-09D*, *KARPI-09D*, *SANKO-09D*.
4. Under radar control service, actual ALT by ATC.
5. MAX IAS 230kt at TL202 for *SANKO-09D*,*ORAVA-09D*,*KARPI-09D*; MAX IAS 220kt at TL205 for *CHI-09D*; MAX IAS 250kt at TL205 for *SANKO-09D*.

Changes: New chart.

STANDARD DEPARTURE CHART-INSTRUMENT

VAR7° W

D-ATIS 126.65
TWR 118.25(118.85)

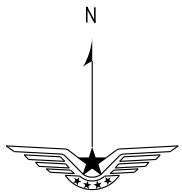
ZYTL DALIAN/Zhoushuizi

RWY10

BEARINGS ARE MAGNETIC.
ALTITUDES, ELEVATIONS AND HEIGHTS IN METERS.
DME DISTANCES IN NAUTICAL MILES.
DISTANCES IN KM.

APP01 123.85(127.95)
APP02 119.6(127.95)
APP03 121.05(127.95)

TL 3600
TA 3000
3300(QNH≥1031hPa)
2700(QNH≤979hPa)



Departure turn MAX IAS380km/h

CHANGHAI
116.8 CHI
CH 115X
N39 16.0E122 37.0

DALIAN
115.4 DBL
CH 101X
N38 57.7E121 34.2

R013°

SANKO-01D
283°
2100
5.0%
103°
103°
D8.0DBL
800
51
039°
48
CHI-01D

VENOS
N38 54.2
E122 19.6

ORAVA
N38 42.6
E120 12.4

34

BUBLO
N38 38.9
E120 35.2

56
ORAVA-01D
290°

EKULI
N38 32.6
E121 13.0

221°
149°
56
ORAVA-01D
KARPI-01D

240°
54
KARPI-01D

KARPI
N38 15.0
E120 43.0

96
SANKO-01D

POVAG
N38 16.7
E122 15.1

18
108°

SANKO
N38 15.0
E122 27.2

180°
1300
DBL
270°
1100
MSA 46km

Note: 1.An close-in obstacle:1959m on 098° of ARP, altitude 46.5m.

2.ORAVA-01D, KARPI-01D, SANKO-01D: If aircraft performance can not reach the standard, pilot shall contact ATC and circle in the north of RWY, climb to 2100m or above over 'DBL', then join in the departure route.

Changes: Procedure.

STANDARD DEPARTURE CHART-INSTRUMENT

VAR7° W

D-ATIS 126.65
TWR 118.25(118.85)

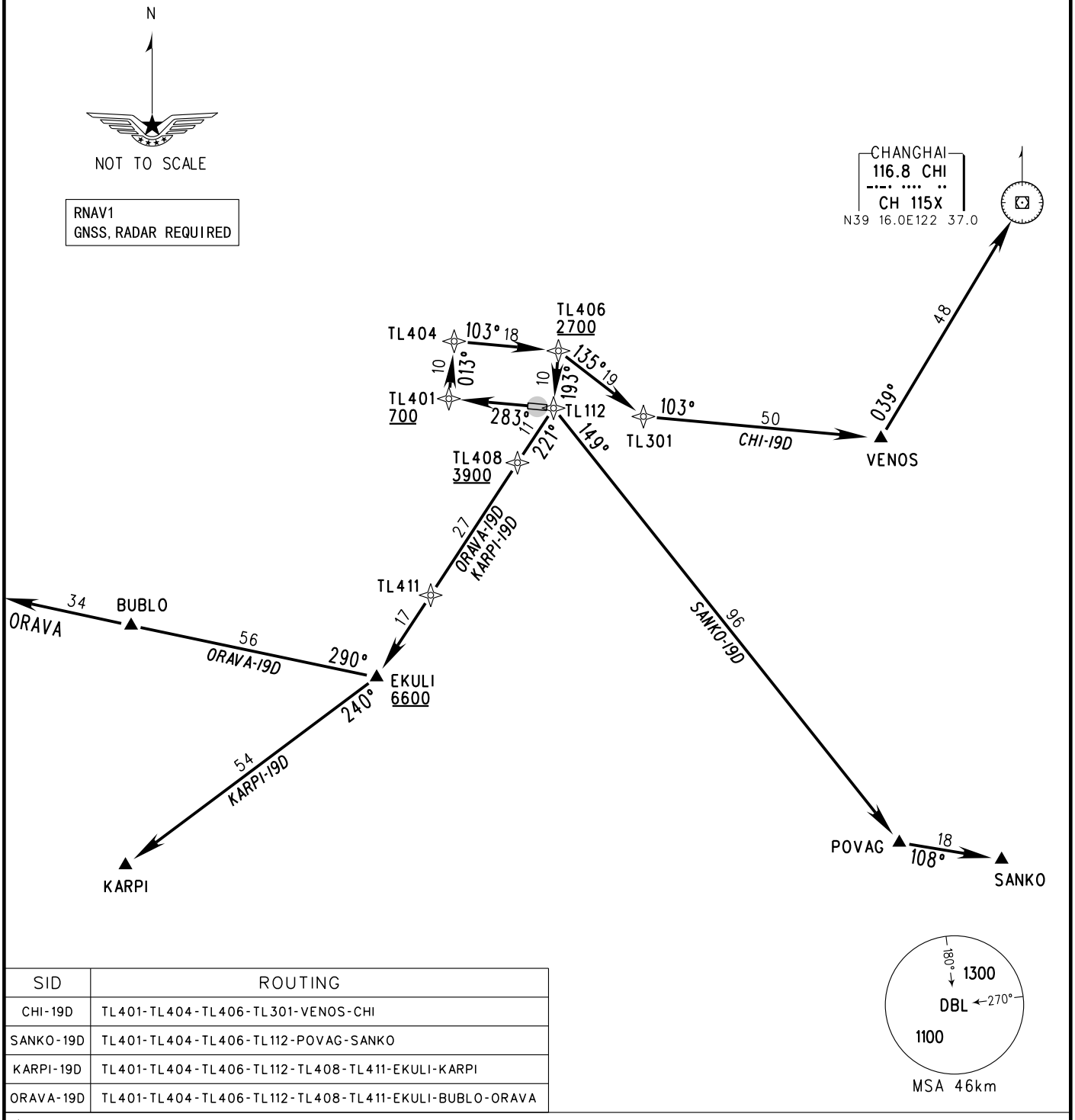
ZYTL DALIAN/Zhoushuizi

RNAV RWY28

BEARINGS ARE MAGNETIC.
ALTITUDES, ELEVATIONS AND HEIGHTS IN METERS.
DME DISTANCES IN NAUTICAL MILES.
DISTANCES IN KM.

APP01 123.85(127.95)
APP02 119.6(127.95)
APP03 121.05(127.95)

TL 3600
TA 3000
3300(QNH≥1031hPa)
2700(QNH≤979hPa)



SID	ROUTING
CHI-19D	TL401-TL404-TL406-TL301-VENOS-CHI
SANKO-19D	TL401-TL404-TL406-TL112-POVAG-SANKO
KARPI-19D	TL401-TL404-TL406-TL112-TL408-TL411-EKULI-KARPI
ORAVA-19D	TL401-TL404-TL406-TL112-TL408-TL411-EKULI-BUBLO-ORAVA

Note: 1. When aircraft ALT is 3000m or below, MAX IAS is 250kt.
2. The departure obstacle (MT) is 250.3m. Departure climb gradient is not less than 5.5% when VIS > 5000m and Ceiling > 280m, there is no departure climb gradient limitation.
3. CCO operation by ATC for *ORAVA-19D, KARPI-19D, SANKO-19D.*
4. Under radar control service, actual ALT by ATC.
5. MAX IAS 230kt at TL404 for *CHI-19D, ORAVA-19D, KARPI-19D, SANKO-19D;* MAX IAS 250kt at TL112.

Changes: New chart.

STANDARD DEPARTURE CHART-INSTRUMENT

VAR7° W

D-ATIS 126.65
TWR 118.25(118.85)

ZYTL DALIAN/Zhoushuizi

RWY28

BEARINGS ARE MAGNETIC.
ALTITUDES, ELEVATIONS AND HEIGHTS IN METERS.
DME DISTANCES IN NAUTICAL MILES.
DISTANCES IN KM.

APP01 123.85(127.95)
APP02 119.6(127.95)
APP03 121.05(127.95)

TL 3600
TA 3000
3300(QNH≥1031hPa)
2700(QNH≤979hPa)



Departure turn MAX IAS380km/h

CHANGHAI
116.8 CHI
CH 115X
N39 16.0E122 37.0

DALIAN
115.4 DBL
CH 101X
N38 57.7E121 34.2

500
2100
283°
103°
D10.0DBL
800
66
CHI-IID
039°
48
VENOS
N38 54.2
E122 19.6
221°
149°
ORAVA-IID
KARPI-IID
24
ORAVA-I2D
KARPI-I2D
Fix N
D13.0DBL
ORAVA
N38 42.6
E120 12.4
34
BUBLO
N38 38.9
E120 35.2
56
ORAVA-IID,I2D
290°
32
ORAVA-IID,I2D
KARPI-IID,I2D
EKULI
N38 32.6
E121 13.0
240°
54
KARPI-IID,I2D
KARPI
N38 15.0
E120 43.0
96
SANKO-IID
POVAG
N38 16.7
E122 15.1
18
108°
SANKO
N38 15.0
E122 27.2

180°
1300
DBL
270°
1100
MSA 46km

Note: 1.An obstacle: 4600m FM RWY10 THR, and 395m FM north of RCL, altitude 250.3m.
Departure climb gradient ≥ 5.5% , Climb gradient is no limit when VIS > 5000m and Ceiling > 280m.
2.*CHI-IID, SANKO-IID, ORAVA-IID, KARIP-IID*: If aircraft can not reach 2100m over 'DBL' after departure turn, pilot shall obey ATC instructions strictly.

Changes: Procedure.

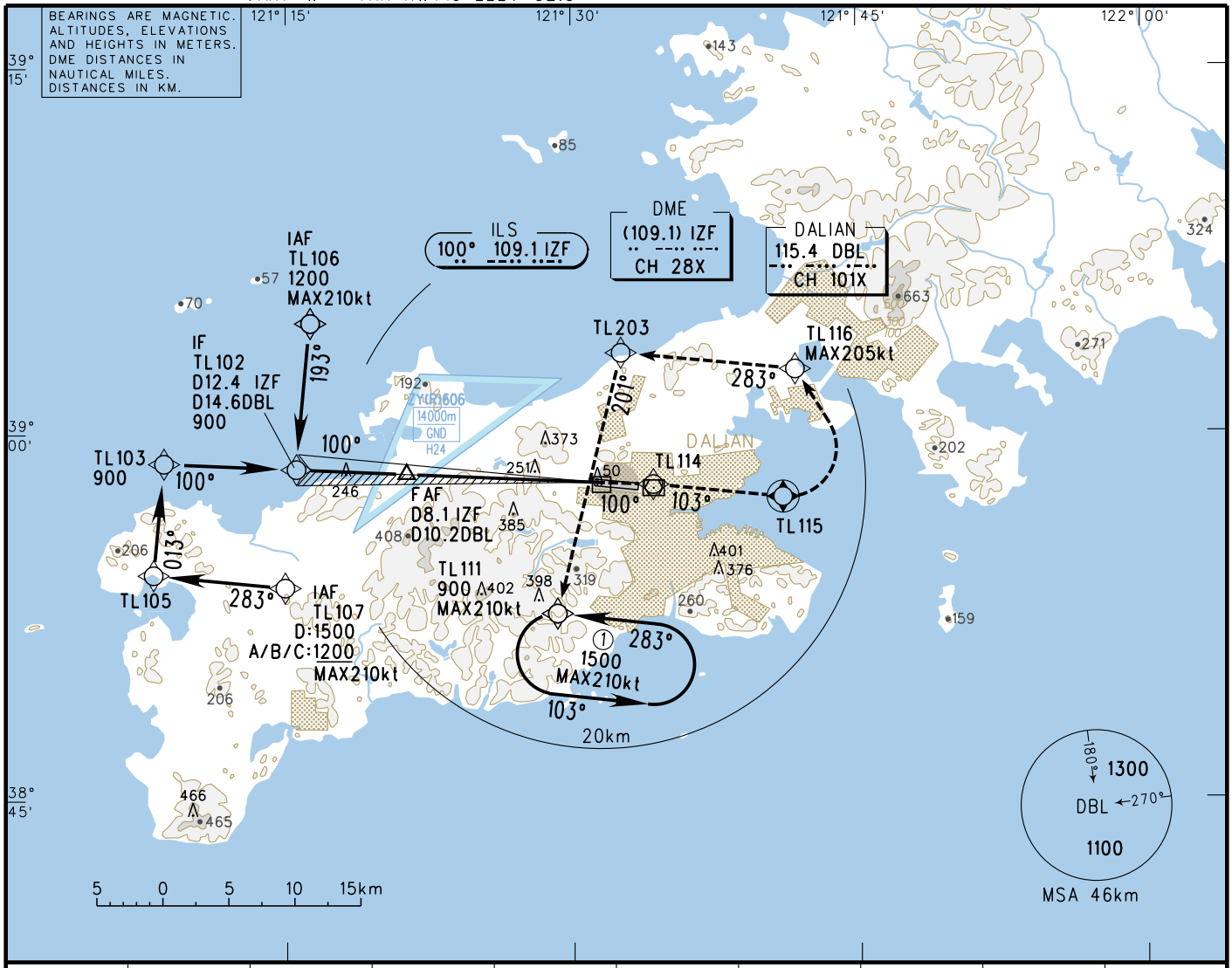
INSTRUMENT APPROACH CHART-ICAO

VAR7° W

AERODROME ELEV 32.6
THR RWY10 ELEV 32.3

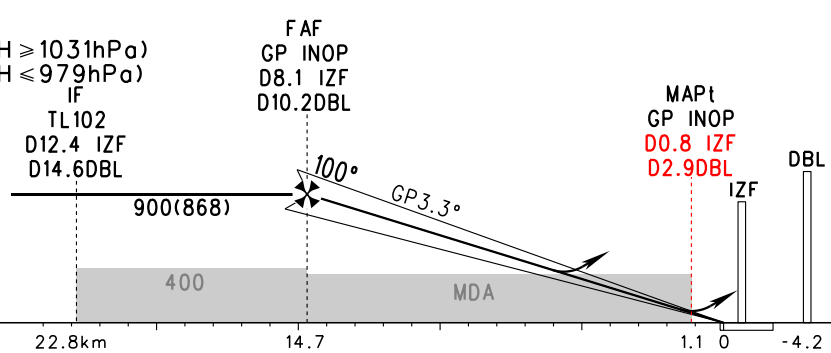
D-ATIS 126.65
APP01 123.85(127.95)
APP02 119.6(127.95)
APP03 121.05(127.95)
TWR 118.25(118.85)

ZYTL DALIAN/Zhoushuizi
RNAV ILS/DME z RWY10



GP INOP	DME (IZF) (NM)	8	7	6	5	4	3	2	1
	ALT (m)	887	780	673	566	460			

TL 3600
TA 3000
3300(QNH ≥ 1031hPa)
2700(QNH ≤ 979hPa)



MISSED APPROACH

Climb straight ahead to TL114, turn RIGHT to TL115, turn LEFT to TL116, via TL203 to TL111 at 900, contact ATC.

Note: LOC OFFSET 3.0°

	A	B	C	D
ILS/DME DA(H) RVR/VIS	148(115) 1200/1200			
GP INOP MDA(H) VIS	360(328) 5000			
CIRCLING MDA(H) VIS	470(438) 5000		530(498) 5000	

FAF-MAPt(GP INOP) 13.6km

GS in kt / km/h	80 150	100 185	120 220	140 260	160 295	180 335
Time min:sec	5:30	4:24	3:40	3:09	2:45	2:27
Rate of descent m/s	2.4	3.0	3.5	4.2	4.7	5.4

Changes: NDB 'ZF','Z' cancel, flight procedure.

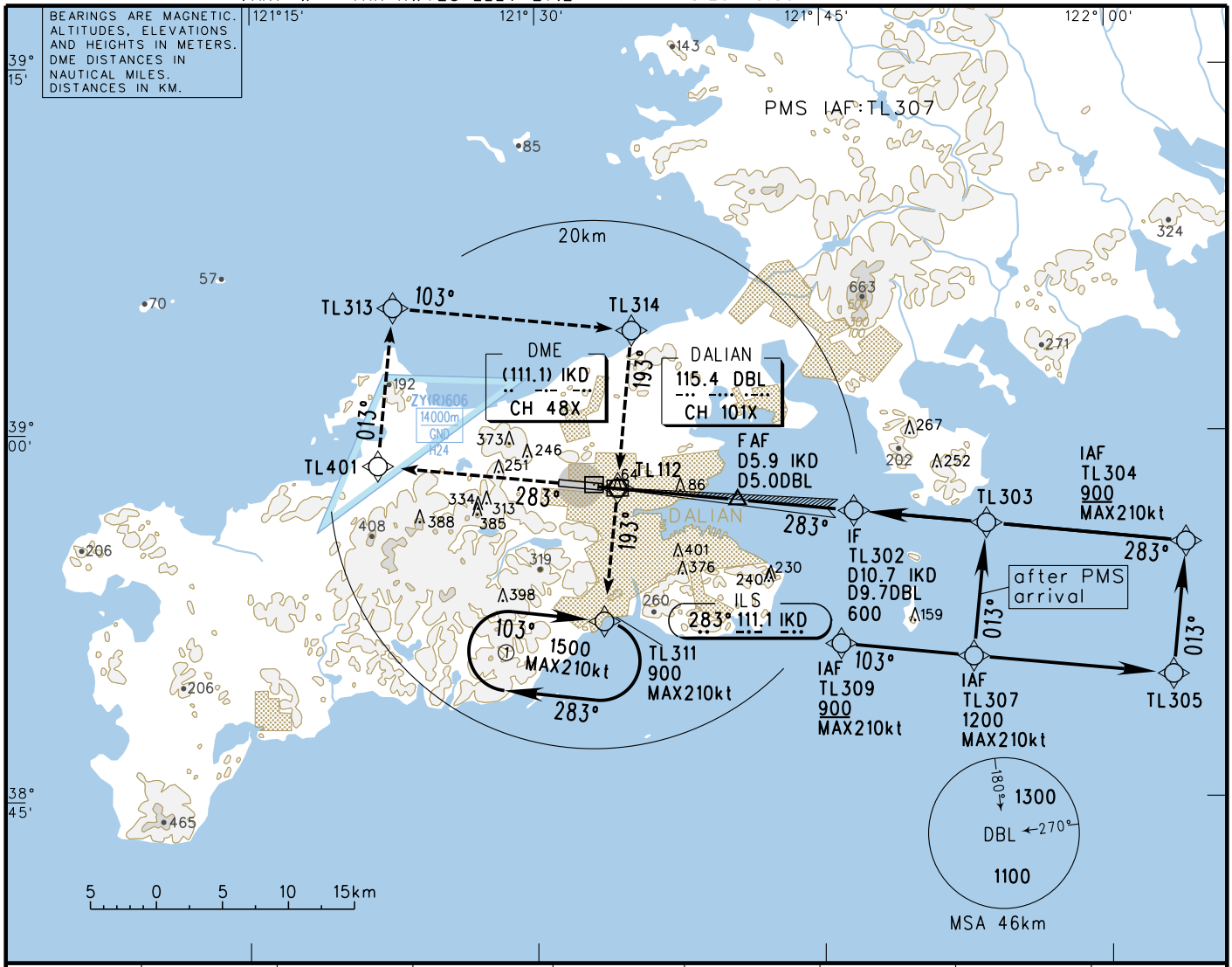
INSTRUMENT APPROACH CHART-ICAO

VAR7° W

AERODROME ELEV 32.6
THR RWY28 ELEV 27.2

D-ATIS 126.65
APP01 123.85(127.95)
APP02 119.6(127.95)
APP03 121.05(127.95)
TWR 118.25(118.85)

ZYTL DALIAN/Zhoushuizi
RNAV ILS/DME z RWY28

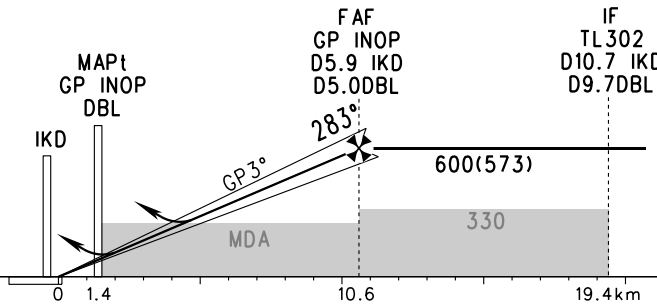


GP INOP	DME (IKD) (NM)	2	3	4	5	6	7	8
	ALT (m)		316	414	511			

MISSED APPROACH

Track MAG283° to TL401, via TL313-TL314-TL112 to TL311 at 900, contact ATC.

TL 3600
TA 3000
3300(QNH ≥ 1031hPa)
2700(QNH ≤ 979hPa)



		A	B	C	D
ILS/DME DA(H) RVR/VIS	Ⓐ	108(80) 800/800		113(85) 800/800	118(90) 900/900
	Ⓑ	143(115) 1400/1400	148(120) 1500/1500		152(125) 1600/1600
GP INOP MDA(H) VIS		265(238) 3800			
CIRCLING MDA(H) VIS		470(438) 5000		530(498) 5000	

FAF-MAPt(GP INOP) 9.2km

GS in kt km/h	80 150	100 185	120 220	140 260	160 295	180 335
Time min:sec	3:44	2:59	2:29	2:08	1:52	1:39
Rate of descent m/s	2.2	2.7	3.2	3.8	4.3	4.9

Note: Ⓐ *Missed approach climb gradient 5%*
Ⓑ *Missed approach climb gradient 2.5%*

Changes: Nil.

INSTRUMENT APPROACH CHART-ICAO

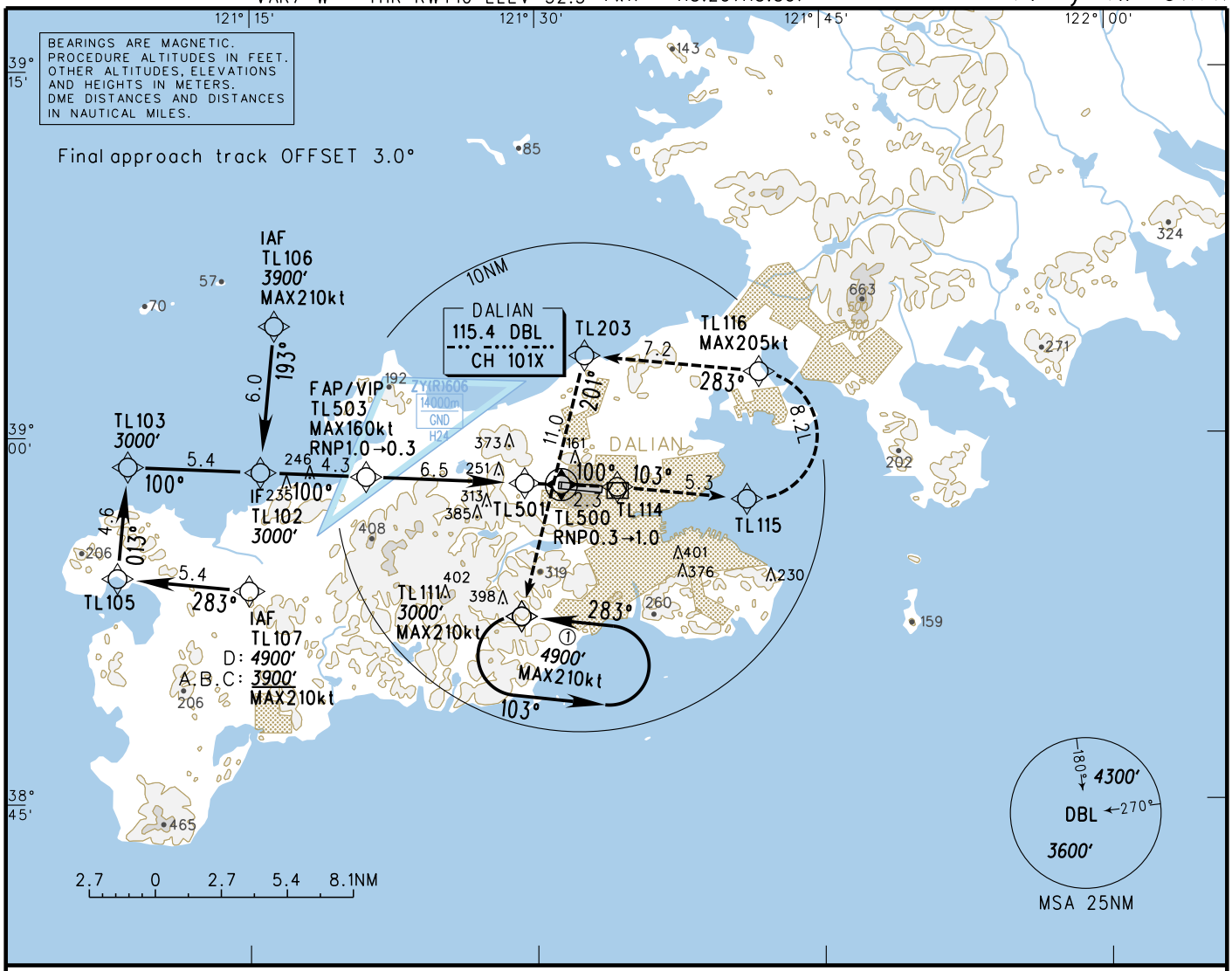
VAR 7° W

AERODROME ELEV 32.6
THR RWY10 ELEV 32.3

D-ATIS 126.65
APP01 123.85(127.95)
APP02 119.6(127.95)
APP03 121.05(127.95)
TWR 118.25(118.85)

ZYTL DALIAN/Zhoushuizi

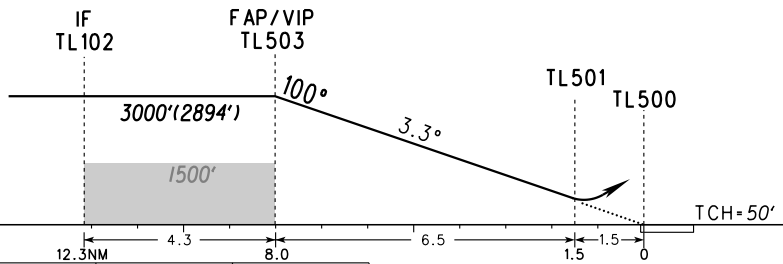
RNP y RWY10(AR)



TL 1800′
TA 9800′
10800′(QNH≥1031hPa)
8900′(QNH≤979hPa)

MISSED APPROACH

Climb straight ahead to TL114, turn RIGHT to TL115, turn LEFT to TL116, via TL203 to TL111 at 3000′, contact ATC.



	A	B	C	D
RNP0.3 DA(H) VIS			620′(510′) 1900m	

AUTHORIZATION REQUIRED

1. RF required.
2. Dual GNSS and IRU required.
3. For uncompensated Baro-VNAV systems, procedure not authorized below +20℃ or above +40℃.
4. Final approach track OFFSET 3.0° .

Changes: TL, TA.

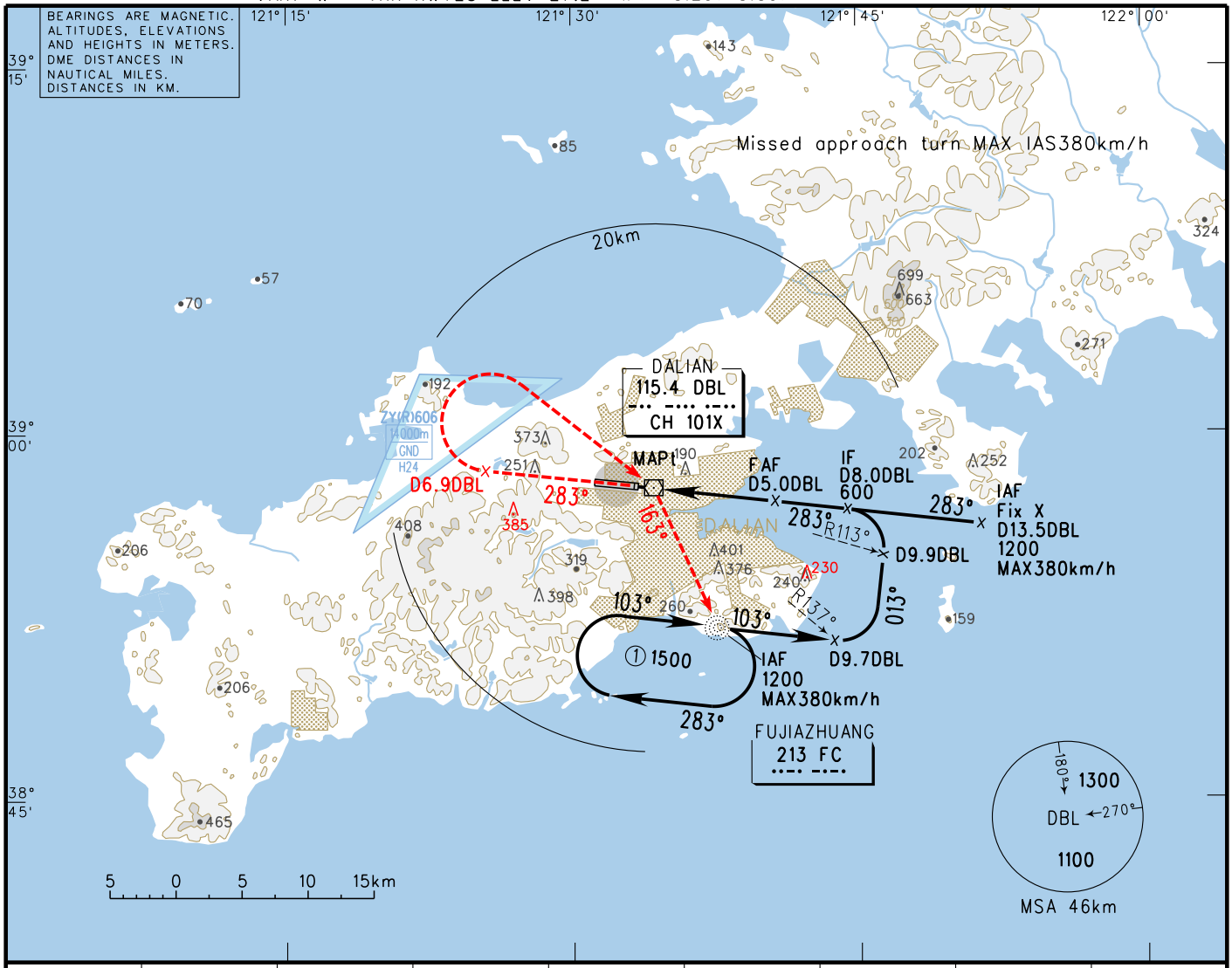
INSTRUMENT APPROACH CHART-ICAO

VAR7° W

AERODROME ELEV 32.6
THR RWY28 ELEV 27.2

D-ATIS 126.65
APP01 123.85(127.95)
APP02 119.6(127.95)
APP03 121.05(127.95)
TWR 118.25(118.85)

ZYTL DALIAN/Zhoushuizi
VOR/DME RWY28

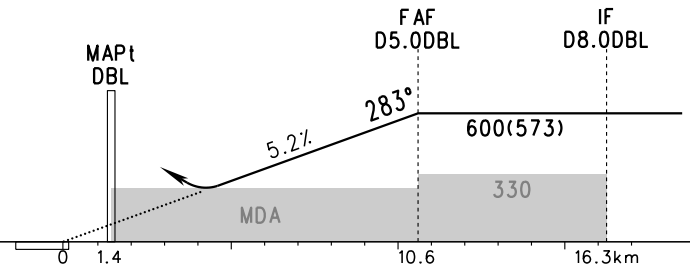


DME (DBL) (NM)	1	2	3	4	5	6	7	8
ALT (m)		311	408	505				

MISSED APPROACH

Climb straight ahead to D6.9DBL, turn RIGHT to 'DBL', track MAG163° to 'FC' at 900, contact ATC.

TL 3600
TA 3000
3300(QNH ≥ 1031hPa)
2700(QNH ≤ 979hPa)



	A	B	C	D
VOR/DME MDA(H) VIS	265(238) 3800			
CIRCLING MDA(H) VIS	470(438) 5000		530(498) 5000	

FAF-MAPt 9.2km

GS in kt / km/h	80 150	100 185	120 220	140 260	160 295	180 335
Time min:sec	3:44	2:59	2:29	2:08	1:52	1:39
Rate of descent m/s	2.2	2.7	3.2	3.8	4.3	4.9

Changes: Missed approach procedure.

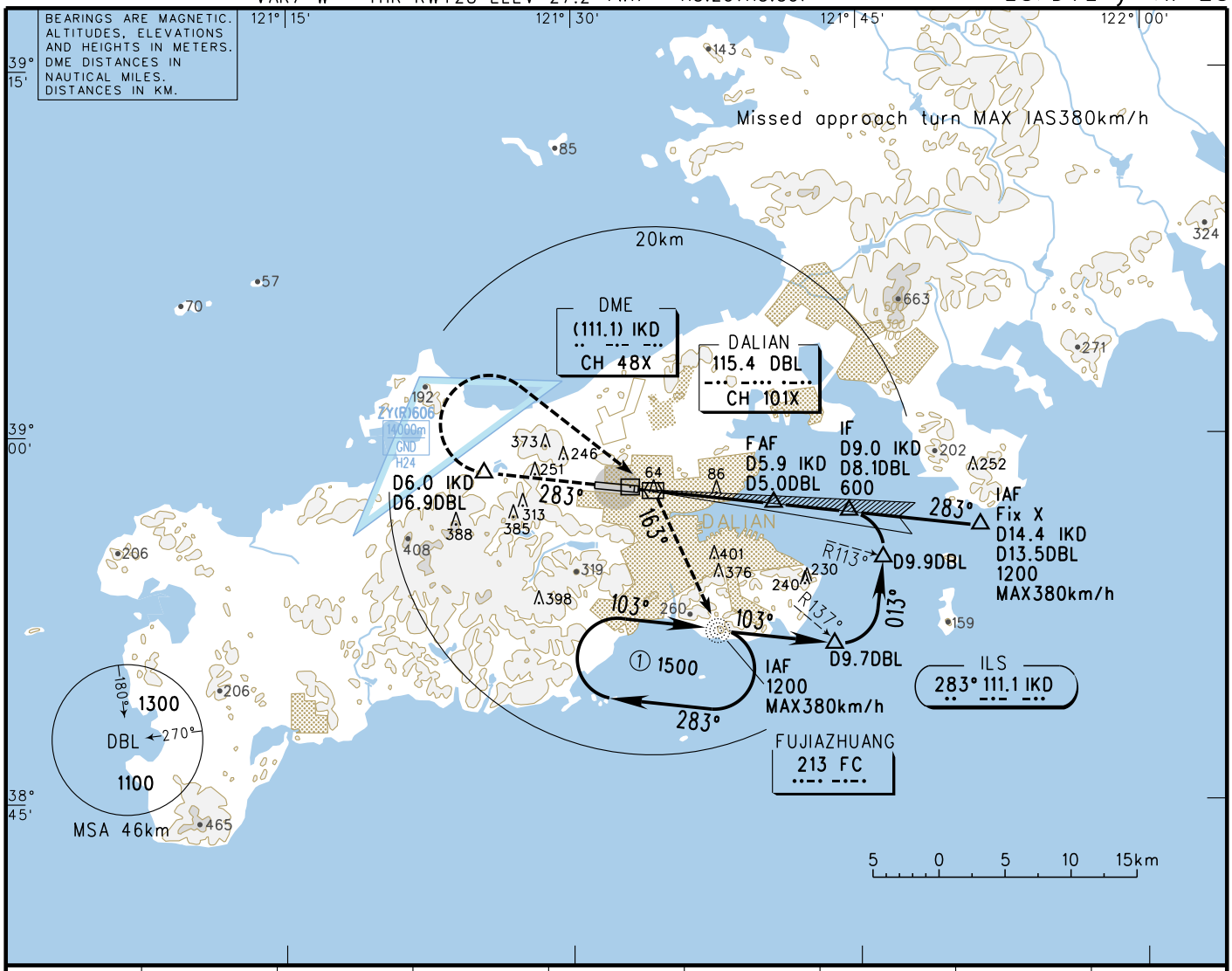
INSTRUMENT APPROACH CHART-ICAO

VAR 7° W

AERODROME ELEV 32.6
THR RWY28 ELEV 27.2

D-ATIS 126.65
APP01 123.85(127.95)
APP02 119.6(127.95)
APP03 121.05(127.95)
TWR 118.25(118.85)

ZYTL DALIAN/Zhoushuizi
ILS/DME y RWY28

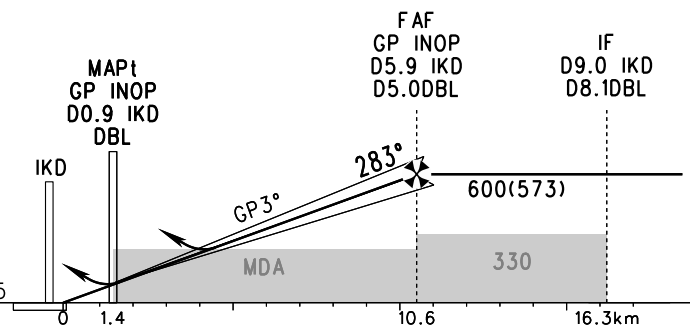


GP INOP	DME (IKD) (NM)	1	2	3	4	5	6	7
	ALT (m)			316	414	511		

MISSED APPROACH

Climb straight ahead to D6.0 IKD/D6.9DBL, turn RIGHT to 'DBL', track MAG163° to 'FC' at 900, contact ATC.

TL 3600
TA 3000
3300(QNH ≥ 1031hPa)
2700(QNH ≤ 979hPa)



		A	B	C	D
ILS/DME DA(H) RVR/VIS	Ⓐ	108(80) 800/800		113(85) 800/800	118(90) 900/900
	Ⓑ	138(110) 1300/1300	143(115) 1400/1400		148(120) 1500/1500
GP INOP MDA(H) VIS		265(238) 3800			
CIRCLING MDA(H) VIS		470(438) 5000		530(498) 5000	

FAF-MAPt(GP INOP) 9.2km

GS in kt / km/h	80 150	100 185	120 220	140 260	160 295	180 335
Time min:sec	3:44	2:59	2:29	2:08	1:52	1:39
Rate of descent m/s	2.2	2.7	3.2	3.8	4.3	4.9

Note: Ⓐ *Missed approach climb gradient 5%*
Ⓑ *Missed approach climb gradient 2.5%*
Changes: Nil.

INSTRUMENT APPROACH CHART-ICAO

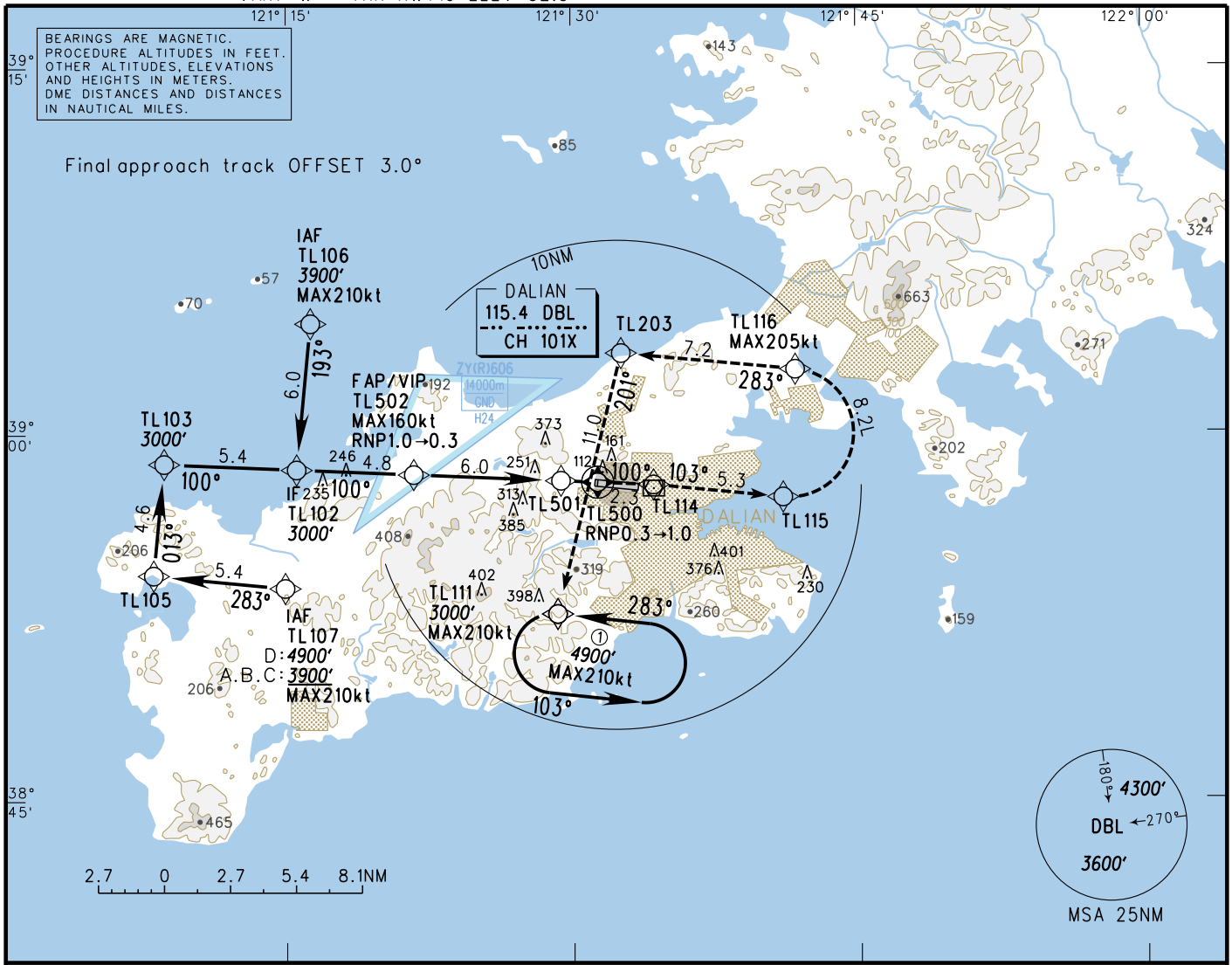
VAR 7° W

AERODROME ELEV 32.6
THR RWY10 ELEV 32.3

D-ATIS 126.65
APP01 123.85(127.95)
APP02 119.6(127.95)
APP03 121.05(127.95)
TWR 118.25(118.85)

ZYTL DALIAN/Zhoushuizi

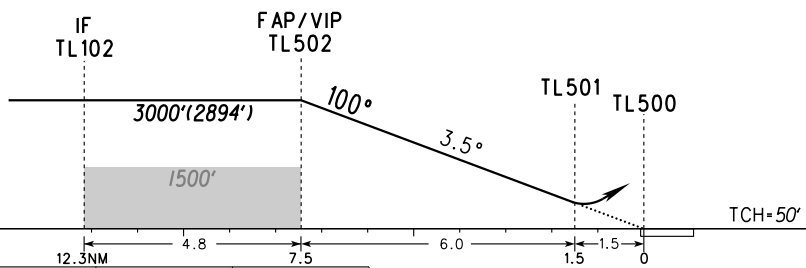
RNP z RWY10(AR)



TL 1800′
TA 9800′
10800′(QNH ≥ 1031hPa)
8900′ (QNH ≤ 979hPa)

MISSED APPROACH

Climb straight ahead to TL114, turn RIGHT to TL115, turn LEFT to TL116, via TL203 to TL111 at 3000′, contact ATC.



	A	B	C	D
RNP0.3 Ⓐ DA(H) VIS			650′(550′) 2100m	
RNP0.3 Ⓑ DA(H) VIS			640′(530′) 2000m	

Note: Ⓐ *Missed approach climb gradient 2.5%*
Ⓑ *Missed approach climb gradient 3%*

AUTHORIZATION REQUIRED

1. RF required.
2. Dual GNSS and IRU required.
3. For uncompensated Baro-VNAV systems, procedure not authorized below +5℃ or above +30℃.
4. Final approach track OFFSET 3.0°.
5. PAPI not match with descent angle.

Changes: TL, TA.

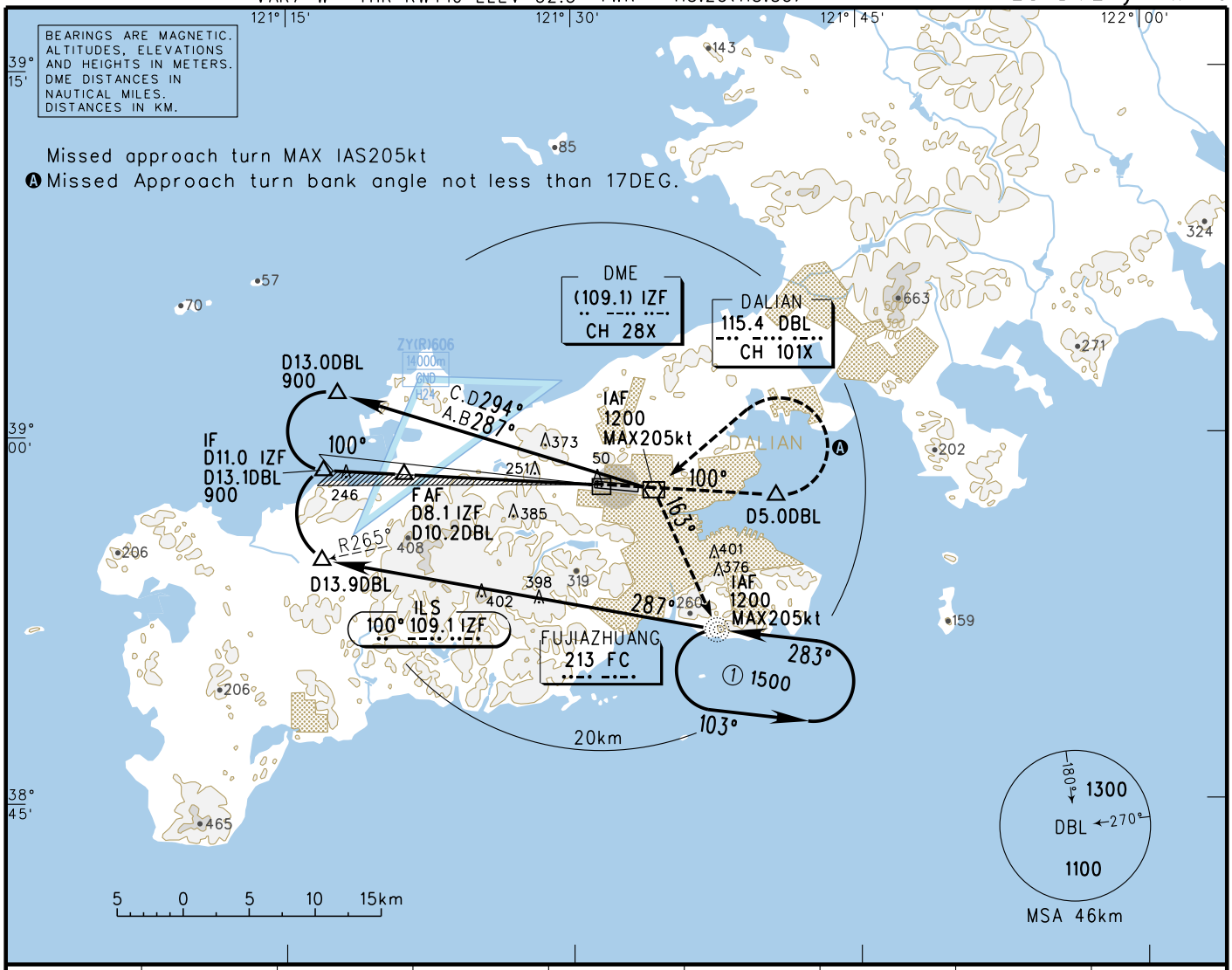
INSTRUMENT APPROACH CHART-ICAO

VAR 7° W

AERODROME ELEV 32.6
THR RWY10 ELEV 32.3

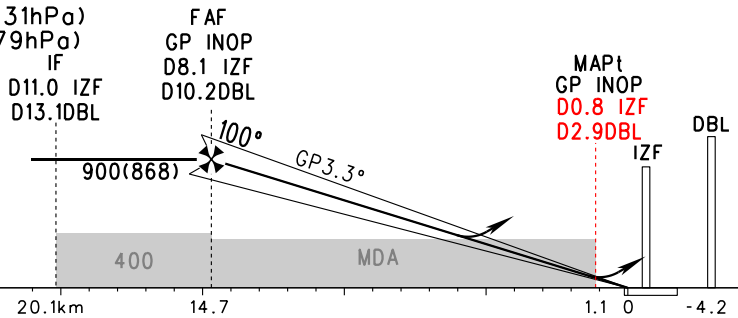
D-ATIS 126.65
APP01 123.85(127.95)
APP02 119.6(127.95)
APP03 121.05(127.95)
TWR 118.25(118.85)

ZYTL DALIAN/Zhoushuizi
ILS/DME y RWY10



GP INOP	DME (IZF) (NM)	8	7	6	5	4	3	2
	ALT (m)	887	780	673	566	460		

TL 3600
TA 3000
3300(QNH ⩾ 1031hPa)
2700(QNH ⩽ 979hPa)



MISSED APPROACH

Climb straight ahead to D5.0DBL, turn LEFT to 'DBL', join in approach procedure follow ATC or track MAG163° to 'FC' at 900, contact ATC.

Note: LOC OFFSET 3.0°

	A	B	C	D
ILS/DME DA(H) RVR/VIS	148(115) 1200/1200			
GP INOP MDA(H) VIS	360(328) 5000			
CIRCLING MDA(H) VIS	470(438) 5000		530(498) 5000	

FAF-MAPt(GP INOP) 13.6km

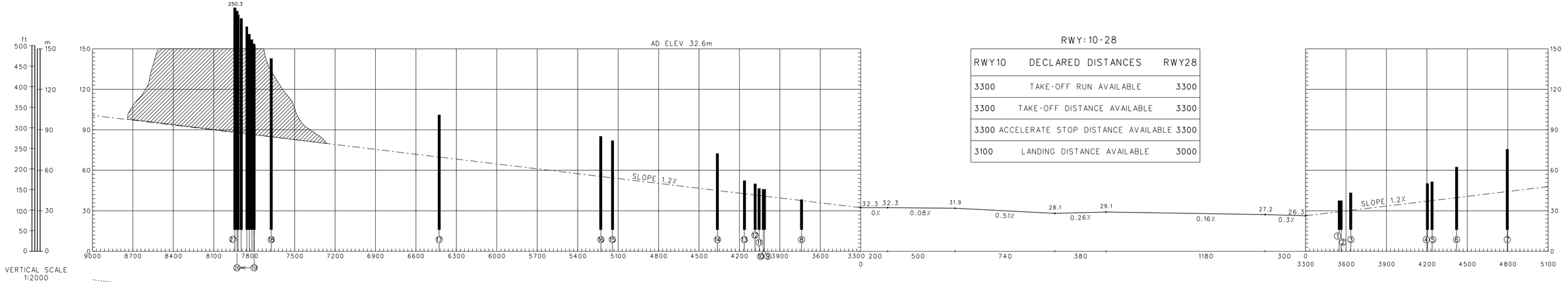
GS in kt km/h	80 150	100 185	120 220	140 260	160 295	180 335
Time min:sec	5:30	4:24	3:40	3:09	2:45	2:27
Rate of descent m/s	2.4	3.0	3.6	4.2	4.7	5.3

Changes: NDB 'ZF', 'Z' cancel, flight procedure.

AERODROME OBSTACLE CHART-ICAO

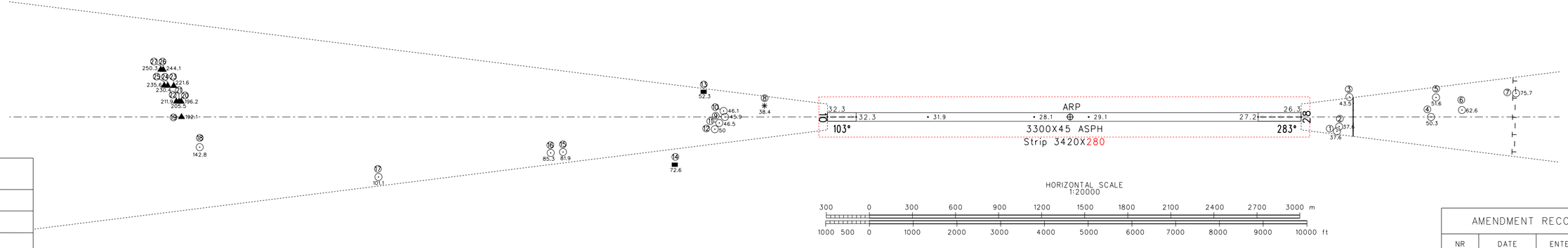
TYPE A(OPERATING LIMITATIONS)

MAGNETIC VARIATION 7° W



RWY:10-28

RWY10	DECLARED DISTANCES	RWY28
3300	TAKE-OFF RUN AVAILABLE	3300
3300	TAKE-OFF DISTANCE AVAILABLE	3300
3300	ACCELERATE STOP DISTANCE AVAILABLE	3300
3100	LANDING DISTANCE AVAILABLE	3000



LEGEND	
①	OBST NR
▲	MOUNTAIN
⊙	POLE
T – T – T	HIGH TENSILINE
✳	TREE
■	BUILD OR LARGE STRUCTURE
+–+–+	RAILWAY

AMENDMENT RECORD

NR	DATE	ENTERED BY

Changes: Width of strip.

Path Terminator	Waypoint ID	Fly over	Magnetic Course(°)	Turn Direction	Altitude (m)	IAS (kt)	VPA/TCH	Navigation Specification
TF	TL106				1200	MAX210		RNAV1
RWY10 STAR NIXEP-04A								
IF	NIXEP							RNAV1
TF	DOBGA							RNAV1
TF	PATRI							RNAV1
TF	TL111				2100	MAX210		RNAV1
TF	TL107				1200	MAX210		RNAV1
RWY10 STAR NIXEP-05A								
IF	NIXEP							RNAV1
TF	TL811							RNAV1
TF	TL810							RNAV1
TF	TL809							RNAV1
TF	TL805							RNAV1
TF	TL804							RNAV1
TF	TL803					MAX250		RNAV1
TF	TL604				3000	AT230		RNAV1
TF	TL603							RNAV1
TF	TL602							RNAV1
TF	TL601				3000	AT230		RNAV1
TF	TL111				1500	MAX210		RNAV1
TF	TL107				1200	MAX210		RNAV1
RWY10 STAR NIXEP-06A								
IF	NIXEP							RNAV1
TF	TL811							RNAV1
TF	TL810							RNAV1
TF	TL809							RNAV1
TF	TL805							RNAV1
TF	TL804							RNAV1
TF	TL803					MAX250		RNAV1
TF	TL604				3000	AT230		RNAV1
TF	TL603							RNAV1
TF	TL602							RNAV1
TF	TL601				3000	AT230		RNAV1
TF	TL111				1500	MAX210		RNAV1
TF	TL110							RNAV1
TF	TL106				1200	MAX210		RNAV1
RWY10 STAR NIXEP-07A								
IF	NIXEP							RNAV1
TF	DOBGA							RNAV1

Changes: Add speed limit for TL803.

Path Terminator	Waypoint ID	Fly over	Magnetic Course(°)	Turn Direction	Altitude (m)	IAS (kt)	VPA/TCH	Navigation Specification
CF	TL115	Y	103					RNAV1
DF	TL116			L		MAX205		RNAV1
TF	TL203							RNAV1
TF	TL111				900	MAX210		RNAV1
RWY28 Approach Transition TL304								
IF	TL304				900	MAX210		RNAV1
TF	TL303							RNAV1
TF	TL302				600			RNAV1
RWY28 Approach Transition TL307								
IF	TL307				1200	MAX210		RNAV1
TF	TL303							RNAV1
TF	TL302				600			RNAV1
RWY28 Approach Transition TL309								
IF	TL309				900	MAX210		RNAV1
TF	TL307							RNAV1
TF	TL305							RNAV1
TF	TL304				900	MAX210		RNAV1
TF	TL303							RNAV1
TF	TL302				600			RNAV1
RWY28 Missed Approach								
CF	TL401		283					RNAV1
TF	TL313							RNAV1
TF	TL314							RNAV1
TF	TL112							RNAV1
TF	TL311				900	MAX210		RNAV1

Changes: Nil.

Path Terminator	Waypoint ID	Fly over	Magnetic Course(°)	Turn Direction	Altitude (m)	IAS (kt)	VPA/TCH	Navigation Specification
TF	TL802							RNAV1
TF	TL605				3000	AT230		RNAV1
TF	TL604				3000	AT230		RNAV1
TF	TL603							RNAV1
TF	TL602							RNAV1
TF	TL601				3000	AT230		RNAV1
TF	TL111				1500	MAX210		RNAV1
TF	TL107				1200	MAX210		RNAV1
RWY10 STAR RUPID-06A								
IF	RUPID							RNAV1
TF	UDETI							RNAV1
TF	TL802							RNAV1
TF	TL605				3000	AT230		RNAV1
TF	TL604				3000	AT230		RNAV1
TF	TL603							RNAV1
TF	TL602							RNAV1
TF	TL601				3000	AT230		RNAV1
TF	TL111				1500	MAX210		RNAV1
TF	TL110							RNAV1
TF	TL106				1200	MAX210		RNAV1
RWY10 STAR RUPID-07A								
IF	RUPID							RNAV1
TF	UDETI							RNAV1
TF	TL802							RNAV1
TF	TL111				1500	MAX210		RNAV1
TF	TL107				1200	MAX210		RNAV1
RWY10 STAR RUPID-08A								
IF	RUPID							RNAV1
TF	UDETI							RNAV1
TF	TL802							RNAV1
TF	TL111				1500	MAX210		RNAV1
TF	TL110							RNAV1
TF	TL106				1200	MAX210		RNAV1
RWY10 STAR ORIXA-04A(by ATC)								
IF	ORIXA							RNAV1
TF	DOBGA							RNAV1
TF	PATRI							RNAV1
TF	TL111				2100	MAX210		RNAV1
TF	TL107				1200	MAX210		RNAV1

Changes: Delete Altitude limit for UDETI.

Path Terminator	Waypoint ID	Fly over	Magnetic Course(°)	Turn Direction	Altitude (m)	IAS (kt)	VPA/TCH	Navigation Specification
RWY10 SID CHI-08D								
CF	TL201		103		800			RNAV1
TF	VENOS				4200			RNAV1
TF	CHI							RNAV1
RWY10 SID CHI-09D								
CF	TL201		103		800			RNAV1
TF	TL202							RNAV1
TF	TL203				2700			RNAV1
TF	TL205					MAX220		RNAV1
TF	TL201							RNAV1
TF	VENOS				4200			RNAV1
TF	CHI							RNAV1
RWY10 SID SANKO-09D								
CF	TL201		103		800			RNAV1
TF	TL202					MAX230		RNAV1
TF	TL203				2700			RNAV1
TF	TL205					MAX250		RNAV1
TF	TL208				3900			RNAV1
TF	POVAG							RNAV1
TF	SANKO							RNAV1
RWY10 SID KARPI-09D								
CF	TL201		103		800			RNAV1
TF	TL202					MAX230		RNAV1
TF	TL203				2700			RNAV1
TF	TL206				3900			RNAV1
TF	EKULI				6600			RNAV1
TF	KARPI							RNAV1
RWY10 SID ORAVA-09D								
CF	TL201		103		800			RNAV1
TF	TL202					MAX230		RNAV1
TF	TL203				2700			RNAV1
TF	TL206				3900			RNAV1
TF	EKULI				6600			RNAV1
TF	BUBLO							RNAV1
TF	ORAVA							RNAV1
RWY28 SID CHI-19D								
CF	TL401		283		700			RNAV1
TF	TL404					MAX230		RNAV1
TF	TL406				2700			RNAV1

Changes: New chart.

Path Terminator	Waypoint ID	Fly over	Magnetic Course(°)	Turn Direction	Altitude (m)	IAS (kt)	VPA/TCH	Navigation Specification
RWY10 STAR ORIXA-05A(by ATC)								
IF	ORIXA							RNAV1
TF	TL810							RNAV1
TF	TL809							RNAV1
TF	TL805							RNAV1
TF	TL804							RNAV1
TF	TL803					MAX250		RNAV1
TF	TL604				3000	AT230		RNAV1
TF	TL603							RNAV1
TF	TL602							RNAV1
TF	TL601				3000	AT230		RNAV1
TF	TL111				1500	MAX210		RNAV1
TF	TL107				1200	MAX210		RNAV1
RWY10 STAR ORIXA-06A(by ATC)								
IF	ORIXA							RNAV1
TF	TL810							RNAV1
TF	TL809							RNAV1
TF	TL805							RNAV1
TF	TL804							RNAV1
TF	TL803					MAX250		RNAV1
TF	TL604				3000	AT230		RNAV1
TF	TL603							RNAV1
TF	TL602							RNAV1
TF	TL601				3000	AT230		RNAV1
TF	TL111				1500	MAX210		RNAV1
TF	TL110							RNAV1
TF	TL106				1200	MAX210		RNAV1
RWY10 STAR ORIXA-07A(by ATC)								
IF	ORIXA							RNAV1
TF	DOBGA							RNAV1
TF	PATRI				3000			RNAV1
TF	TL111				1500	MAX210		RNAV1
TF	TL107				1200	MAX210		RNAV1
RWY10 STAR ORIXA-08A(by ATC)								
IF	ORIXA							RNAV1
TF	DOBGA							RNAV1
TF	PATRI				3000			RNAV1
TF	TL111				1500	MAX210		RNAV1
TF	TL110							RNAV1

Changes: Add speed limit for TL803.

Path Terminator	Waypoint ID	Fly over	Magnetic Course(°)	Turn Direction	Altitude (m)	IAS (kt)	VPA/TCH	Navigation Specification
TF	TL111				1500	MAX210		RNAV1
TF	TL107				1200	MAX210		RNAV1
RWY10 STAR CHI-06A								
IF	CHI							RNAV1
TF	VENOS							RNAV1
TF	TL113							RNAV1
TF	TL802							RNAV1
TF	TL605				3000	AT230		RNAV1
TF	TL604				3000	AT230		RNAV1
TF	TL603							RNAV1
TF	TL602							RNAV1
TF	TL601				3000	AT230		RNAV1
TF	TL111				1500	MAX210		RNAV1
TF	TL110							RNAV1
TF	TL106				1200	MAX210		RNAV1
RWY10 STAR CHI-07A								
IF	CHI							RNAV1
TF	VENOS							RNAV1
TF	TL113							RNAV1
TF	TL802							RNAV1
TF	TL111				1500	MAX210		RNAV1
TF	TL107				1200	MAX210		RNAV1
RWY10 STAR CHI-08A								
IF	CHI							RNAV1
TF	VENOS							RNAV1
TF	TL113							RNAV1
TF	TL802							RNAV1
TF	TL111				1500	MAX210		RNAV1
TF	TL110							RNAV1
TF	TL106				1200	MAX210		RNAV1
RWY10 STAR RUPID-04A								
IF	RUPID							RNAV1
TF	UDETI							RNAV1
TF	TL802							RNAV1
TF	TL111				2100	MAX210		RNAV1
TF	TL107				1200	MAX210		RNAV1
RWY10 STAR RUPID-05A								
IF	RUPID							RNAV1
TF	UDETI							RNAV1

Changes: Nil.

Path Terminator	Waypoint ID	Fly over	Magnetic Course(°)	Turn Direction	Altitude (m)	IAS (kt)	VPA/TCH	Navigation Specification
TF	TL713							RNAV1
TF	TL712							RNAV1
TF	TL711				2700 or by ATC	AT230		RNAV1
TF	TL307				1200	MAX210		RNAV1
RWY28 STAR INTIV-18A								
IF	INTIV							RNAV1
TF	TL814							RNAV1
TF	TL815				3600 or by ATC			RNAV1
TF	TL812							RNAV1
TF	PATRI				3000			RNAV1
TF	TL311							RNAV1
TF	TL309				900	MAX210		RNAV1
RWY28 STAR INTIV-19A								
IF	INTIV							RNAV1
TF	TL814							RNAV1
TF	TL815				3600 or by ATC			RNAV1
TF	TL812							RNAV1
TF	PATRI				3000			RNAV1
TF	TL312				3000			RNAV1
TF	TL309				900	MAX210		RNAV1
RWY28 Holding(Outbound Time:1min)								
HM	TL304	Y	283	R	1200	MAX210		RNAV1
HM	UDETI	Y	333	L	ALT by ATC	MAX250		RNAV1
HM	TL311	Y	103	R	1500	MAX210		RNAV1
HM	PATRI	Y	023	R	ALT by ATC	MAX250		RNAV1
HM	TL814	Y	109	L	ALT by ATC	MAX250		RNAV1
RWY10 Approach Transition TL106								
IF	TL106				1200	MAX210		RNAV1
TF	TL102				900			RNAV1
RWY10 Approach Transition TL107								
IF	TL107				1200	MAX210		RNAV1
TF	TL105							RNAV1
TF	TL103				900			RNAV1
TF	TL102				900			RNAV1
RWY10 Missed Approach								
CF	TL114		100					RNAV1

Changes: INTIV-18A, INTIV-19A.

WAYPOINT ID	COORDINATES	WAYPOINT ID	COORDINATES	WAYPOINT ID	COORDINATES
CHI	N39° 16.0'E122° 37.0'				
BUBLO	N38° 38'51"E120° 35'10"				
DOBGA	N38° 24'47"E121° 27'31"				
EKULI	N38° 32'38"E121° 12'57"				
INTIV	N38° 28'29"E120° 31'11"				
KARPI	N38° 15'00"E120° 43'02"				
NIXEP	N38° 15'00"E120° 59'18"				
ORAVA	N38° 42'36"E120° 12'21"				
ORIXA	N38° 15'18"E121° 19'21"				
PATRI	N38° 33'27"E121° 30'42"				
POVAG	N38° 16'44"E122° 15'04"				
RUPID	N38° 24'29"E122° 24'40"				
SANKO	N38° 15'00"E122° 27'12"				
UDETI	N38° 41'30"E122° 09'36"				
VENOS	N38° 54'10"E122° 19'36"				

Changes: Delete TANIB.

WAYPOINT ID	COORDINATES	WAYPOINT ID	COORDINATES	WAYPOINT ID	COORDINATES
TL102	N38° 58'35"E121° 15'32"	TL313	N39° 05'12.2"E121° 22'30.1"	TL704	N38° 32'24.9"E121° 58'20.6"
TL103	N38° 58'49"E121° 08'35"	TL314	N39° 04'14.9"E121° 35'02.1"	TL705	N38° 34'23.3"E122° 04'45.1"
TL105	N38° 54'15"E121° 08'02"			TL706	N38° 38'25.9"E122° 12'10.8"
TL106	N39° 04'34"E121° 16'16"	TL401	N38° 58'44"E121° 21'42"		
TL107	N38° 53'44"E121° 14'56"	TL404	N39° 04'07"E121° 22'22"	TL711	N38° 30'34.4"E122° 09'59.2"
		TL406	N39° 03'10"E121° 34'54"	TL712	N38° 28'06.3"E122° 03'52.2"
TL110	N39° 03'40"E121° 28'21"	TL408	N38° 52'42"E121° 29'54"	TL713	N38° 26'45.2"E121° 57'12.8"
TL111	N38° 52'40"E121° 29'12"			TL714	N38° 26'35.0"E121° 50'20.7"
TL112	N38° 57'48"E121° 34'16"	TL411	N38° 40'19"E121° 19'26"	TL715	N38° 27'36.3"E121° 43'35.7"
TL113	N38° 49'00"E122° 15'31"			TL716	N38° 29'46.1"E121° 37'17.6"
TL114	N38° 57'56.9"E121° 34'14.7"	TL500	N38° 58'03.1"E121° 31'19.0"	TL717	N38° 39'16.1"E121° 33'41.3"
TL115	N38° 57'25.2"E121° 41'02.6"	TL501	N38° 58'07.1"E121° 29'23.6"	TL718	N38° 43'58.1"E121° 30'17.1"
TL116	N39° 02'38.6"E121° 41'42.8"	TL502	N38° 58'22.7"E121° 21'40.5"		
		TL503	N38° 58'23.9"E121° 21'04.7"	TL802	N38° 46'27.6"E122° 05'04.1"
TL201	N38° 57'00"E121° 44'26"			TL803	N38° 36'19.9"E122° 04'49.3"
TL202	N39° 02'22"E121° 45'08"	TL601	N38° 33'03.0"E121° 36'57.6"	TL804	N38° 29'18.6"E121° 58'29.2"
TL203	N39° 03'20"E121° 32'34"	TL602	N38° 35'18.3"E121° 43'13.0"	TL805	N38° 20'55.7"E121° 50'57.4"
TL205	N38° 57'56"E121° 32'20"	TL603	N38° 38'45.5"E121° 48'31.0"	TL806	N38° 23'49.6"E122° 10'00.1"
TL206	N38° 52'53"E121° 25'51"	TL604	N38° 43'10.5"E121° 52'29.5"	TL807	N38° 20'53.3"E122° 00'27.9"
TL208	N38° 51'54.3"E121° 40'07.1"	TL605	N38° 48'15.0"E121° 54'52.0"	TL808	N38° 20'56.1"E121° 48'41.1"
				TL809	N38° 20'57.8"E121° 36'55.9"
TL301	N38° 56'57"E121° 45'03"	TL611	N38° 42'24.4"E121° 59'39.9"	TL810	N38° 20'58.2"E121° 24'15.0"
TL302	N38° 56'49"E121° 46'38"	TL612	N38° 37'42.0"E121° 56'16.7"	TL811	N38° 20'57.8"E121° 16'31.4"
TL303	N38° 56'17"E121° 53'35"	TL613	N38° 33'38.5"E121° 51'43.7"	TL812	N38° 27'53.8"E121° 17'20.1"
TL304	N38° 55'27"E122° 04'02"	TL614	N38° 30'24.5"E121° 46'12.9"	TL813	N38° 26'43.1"E121° 14'30.2"
TL305	N38° 50'02"E122° 03'19"	TL615	N38° 28'08.2"E121° 39'58.4"	TL814	N38° 24'00.4"E120° 58'34.5"
TL307	N38° 50'50"E121° 52'52"	TL616	N38° 26'43.7"E121° 32'11.4"	TL815	N38° 25'22.4"E121° 05'12.7"
TL309	N38° 51'23"E121° 45'56"			TL816	N38° 25'09.3"E121° 05'17.2"
		TL701	N38° 35'30.6"E121° 38'38.6"		
TL311	N38° 52'21"E121° 33'32"	TL702	N38° 33'00.0"E121° 44'44.4"	TLC04	N39° 00'01.9"E121° 41'22.7"
TL312	N38° 35'58"E121° 36'48"	TL703	N38° 31'56.4"E121° 51'29.3"		

Changes: Add TL717, TL718, TL815, TL816.

Path Terminator	Waypoint ID	Fly over	Magnetic Course(°)	Turn Direction	Altitude (m)	IAS (kt)	VPA/TCH	Navigation Specification
RWY28 STAR CHI-17A								
IF	CHI							RNAV1
TF	VENOS							RNAV1
TF	TL706				3000	AT230		RNAV1
TF	TL705				3000	AT230		RNAV1
TF	TL704							RNAV1
TF	TL703							RNAV1
TF	TL702							RNAV1
TF	TL701							RNAV1
TF	TL717							RNAV1
TF	TL718				3000	AT230		RNAV1
TF	TL307				1200	MAX210		RNAV1
RWY28 STAR CHI-19A								
IF	CHI							RNAV1
TF	VENOS							RNAV1
TF	TL304				900	MAX210		RNAV1
RWY28 STAR RUPID-16A								
IF	RUPID							RNAV1
TF	UDETI							RNAV1
TF	TL305							RNAV1
TF	TL304				900	MAX210		RNAV1
RWY28 STAR RUPID-17A								
IF	RUPID							RNAV1
TF	TL706				3000	AT230		RNAV1
TF	TL705				3000	AT230		RNAV1
TF	TL704							RNAV1
TF	TL703							RNAV1
TF	TL702							RNAV1
TF	TL701							RNAV1
TF	TL717							RNAV1
TF	TL718				3000	AT230		RNAV1
TF	TL307				1200	MAX210		RNAV1
RWY28 STAR RUPID-19A								
IF	RUPID							RNAV1
TF	UDETI							RNAV1
TF	TL305							RNAV1
TF	TL304				900	MAX210		RNAV1
RWY28 STAR ORIXA-16A(by ATC)								
IF	ORIXA							RNAV1

Changes: CHI-17A, RUPID-17A, Delete Altitude limit for UDETI.

Path Terminator	Waypoint ID	Fly over	Magnetic Course(°)	Turn Direction	Altitude (m)	IAS (kt)	VPA/TCH	Navigation Specification
TF	PATRI				3000			RNAV1
TF	TL111				1500	MAX210		RNAV1
TF	TL107				1200	MAX210		RNAV1
RWY10 STAR NIXEP-08A								
IF	NIXEP							RNAV1
TF	DOBGA							RNAV1
TF	PATRI				3000			RNAV1
TF	TL111				1500	MAX210		RNAV1
TF	TL110							RNAV1
TF	TL106				1200	MAX210		RNAV1
RWY10 STAR INTIV-04A								
IF	INTIV							RNAV1
TF	TL814							RNAV1
TF	TL816				3600 or by ATC			RNAV1
TF	TL813							RNAV1
TF	PATRI							RNAV1
TF	TL111				2100	MAX210		RNAV1
TF	TL107				1200	MAX210		RNAV1
RWY10 STAR INTIV-05A								
IF	INTIV							RNAV1
TF	TL814							RNAV1
TF	TL816				3600 or by ATC			RNAV1
TF	TL813							RNAV1
TF	TL616				2700 or by ATC	AT230		RNAV1
TF	TL615							RNAV1
TF	TL614							RNAV1
TF	TL613							RNAV1
TF	TL612							RNAV1
TF	TL611				2700 or by ATC	AT230		RNAV1
TF	TL111				1500	MAX210		RNAV1
TF	TL107				1200	MAX210		RNAV1
RWY10 STAR INTIV-06A								
IF	INTIV							RNAV1
TF	TL814							RNAV1
This procedure is unfinished.								
Changes: INTIV-04A, INTIV-05A.								

Path Terminator	Waypoint ID	Fly over	Magnetic Course(°)	Turn Direction	Altitude (m)	IAS (kt)	VPA/TCH	Navigation Specification
TF	DOBGA							RNAV1
TF	TL312							RNAV1
TF	TL309				900	MAX210		RNAV1
RWY28 STAR ORIXA-17A(by ATC)								
IF	ORIXA							RNAV1
TF	TL810							RNAV1
TF	TL808							RNAV1
TF	TL807							RNAV1
TF	TL806					MAX250		RNAV1
TF	TL705				3000	AT230		RNAV1
TF	TL704							RNAV1
TF	TL703							RNAV1
TF	TL702							RNAV1
TF	TL701							RNAV1
TF	TL717							RNAV1
TF	TL718				3000	AT230		RNAV1
TF	TL307				1200	MAX210		RNAV1
RWY28 STAR ORIXA-18A(by ATC)								
IF	ORIXA							RNAV1
TF	DOBGA							RNAV1
TF	PATRI				3000			RNAV1
TF	TL311							RNAV1
TF	TL309				900	MAX210		RNAV1
RWY28 STAR ORIXA-19A(by ATC)								
IF	ORIXA							RNAV1
TF	DOBGA							RNAV1
TF	TL312				3000			RNAV1
TF	TL309				900	MAX210		RNAV1
RWY28 STAR NIXEP-16A								
IF	NIXEP							RNAV1
TF	DOBGA							RNAV1
TF	TL312							RNAV1
TF	TL309				900	MAX210		RNAV1
RWY28 STAR NIXEP-17A								
IF	NIXEP							RNAV1
TF	TL811							RNAV1
TF	TL810							RNAV1
TF	TL808							RNAV1
TF	TL807							RNAV1

Changes: Add speed limit for TL806, ORIXA-17A(by ATC).

Path Terminator	Waypoint ID	Fly over	Magnetic Course(°)	Turn Direction	Altitude (m)	IAS (kt)	VPA/TCH	Navigation Specification
TF	TL301							RNAV1
TF	VENOS							RNAV1
TF	CHI							RNAV1
RWY28 SID SANKO-19D								
CF	TL401		283		700			RNAV1
TF	TL404					MAX230		RNAV1
TF	TL406				2700			RNAV1
TF	TL112					MAX250		RNAV1
TF	POVAG							RNAV1
TF	SANKO							RNAV1
RWY28 SID KARPI-19D								
CF	TL401		283		700			RNAV1
TF	TL404					MAX230		RNAV1
TF	TL406				2700			RNAV1
TF	TL112					MAX250		RNAV1
TF	TL408				3900			RNAV1
TF	TL411							RNAV1
TF	EKULI				6600			RNAV1
TF	KARPI							RNAV1
RWY28 SID ORAVA-19D								
CF	TL401		283		700			RNAV1
TF	TL404					MAX230		RNAV1
TF	TL406				2700			RNAV1
TF	TL112					MAX250		RNAV1
TF	TL408				3900			RNAV1
TF	TL411							RNAV1
TF	EKULI				6600			RNAV1
TF	BUBLO							RNAV1
TF	ORAVA							RNAV1
RWY10 STAR CHI-05A								
IF	CHI							RNAV1
TF	VENOS							RNAV1
TF	TL113							RNAV1
TF	TL802							RNAV1
TF	TL605				3000	AT230		RNAV1
TF	TL604				3000	AT230		RNAV1
TF	TL603							RNAV1
TF	TL602							RNAV1
TF	TL601				3000	AT230		RNAV1

Changes: New chart.

Path Terminator	Waypoint ID	Fly over	Magnetic Course(°)	Turn Direction	Altitude (m)	IAS (kt)	VPA/TCH	Navigation Specification
TF	TL816				3600 or by ATC			RNAV1
TF	TL813							RNAV1
TF	TL616				2700 or by ATC	AT230		RNAV1
TF	TL615							RNAV1
TF	TL614							RNAV1
TF	TL613							RNAV1
TF	TL612							RNAV1
TF	TL611				2700 or by ATC	AT230		RNAV1
TF	TL111				1500	MAX210		RNAV1
TF	TL110							RNAV1
TF	TL106				1200	MAX210		RNAV1
RWY10 STAR INTIV-07A								
IF	INTIV							RNAV1
TF	TL814							RNAV1
TF	TL816				3600 or by ATC			RNAV1
TF	TL813							RNAV1
TF	PATRI				3000			RNAV1
TF	TL111				1500	MAX210		RNAV1
TF	TL107				1200	MAX210		RNAV1
RWY10 STAR INTIV-08A								
IF	INTIV							RNAV1
TF	TL814							RNAV1
TF	TL816				3600 or by ATC			RNAV1
TF	TL813							RNAV1
TF	PATRI				3000			RNAV1
TF	TL111				1500	MAX210		RNAV1
TF	TL110							RNAV1
TF	TL106				1200	MAX210		RNAV1
RWY10 Holding(Outbound Time:1min)								
HM	UDETI	Y	333	L	ALT by ATC	MAX250		RNAV1
HM	TL804	Y	042	R	ALT by ATC	MAX250		RNAV1
HM	PATRI	Y	023	R	ALT by ATC	MAX250		RNAV1
HM	TL111	Y	283	L	1500	MAX210		RNAV1
HM	TL814	Y	109	L	ALT by ATC	MAX250		RNAV1

Changes: INTIV-06A, INTIV-07A, INTIV-08A.

Path Terminator	Waypoint ID	Fly over	Magnetic Course(°)	Turn Direction	Altitude (m)	IAS (kt)	VPA/TCH	Navigation Specification
TF	TL806					MAX250		RNAV1
TF	TL705				3000	AT230		RNAV1
TF	TL704							RNAV1
TF	TL703							RNAV1
TF	TL702							RNAV1
TF	TL701							RNAV1
TF	TL717							RNAV1
TF	TL718				3000	AT230		RNAV1
TF	TL307				1200	MAX210		RNAV1
RWY28 STAR NIXEP-18A								
IF	NIXEP							RNAV1
TF	DOBGA							RNAV1
TF	PATRI				3000			RNAV1
TF	TL311							RNAV1
TF	TL309				900	MAX210		RNAV1
RWY28 STAR NIXEP-19A								
IF	NIXEP							RNAV1
TF	DOBGA							RNAV1
TF	TL312				3000			RNAV1
TF	TL309				900	MAX210		RNAV1
RWY28 STAR INTIV-16A								
IF	INTIV							RNAV1
TF	TL814							RNAV1
TF	TL815				3600 or by ATC			RNAV1
TF	TL812							RNAV1
TF	PATRI							RNAV1
TF	TL312							RNAV1
TF	TL309				900	MAX210		RNAV1
RWY28 STAR INTIV-17A								
IF	INTIV							RNAV1
TF	TL814							RNAV1
TF	TL815				3600 or by ATC			RNAV1
TF	TL812							RNAV1
TF	TL716				2700 or by ATC	AT230		RNAV1
TF	TL715							RNAV1
TF	TL714							RNAV1

Changes: Add speed limit for TL806, NIXEP-17A, INTIV-16A, INTIV-17A.

PT[ARC CTR, Radius NM]	Waypoint ID	Fly over	Magnetic Course(°)	Turn Direction	Altitude (ft)	IAS (kt)	VPA/TCH	Navigation Specification
RWY10 Approach Transition TL106 AR z&y								
IF	TL106				3900	MAX210		RNAV1
TF	TL102				3000			RNP1
RWY10 Approach Transition TL107 AR z&y								
IF	TL107				3900	MAX210		RNAV1
TF	TL105							RNAV1
TF	TL103				3000			RNAV1
TF	TL102				3000			RNP1
RWY10 Approach And Missed Approach AR z								
IF	TL102				3000			RNP1
TF	TL502				3000	MAX160		RNP1
TF	TL501						-3.5°	RNP0.3
TF	TL500	Y					-3.5°/50ft	RNP0.3
TF	TL114							RNP1
TF	TL115							RNP1
RF[TLC04, 2.6]	TL116			L		MAX205		RNP1
TF	TL203							RNP1
TF	TL111				3000	MAX210		RNP1
RWY10 Approach And Missed Approach AR y								
IF	TL102				3000			RNP1
TF	TL503				3000	MAX160		RNP1
TF	TL501						-3.3°	RNP0.3
TF	TL500	Y					-3.3°/50ft	RNP0.3
TF	TL114							RNP1
TF	TL115							RNP1
RF[TLC04, 2.6]	TL116			L		MAX205		RNP1
TF	TL203							RNP1
TF	TL111				3000	MAX210		RNP1

Changes: Nil.