ZBMZ AD 2.1 机场地名代码和名称 Aerodrome location indicator(ICAO / IATA) and name

ZBMZ/NZH-满洲里/西郊 MANZHOULI/Xijiao

ZBMZ AD 2.2 机场地理位置和管理资料 Aerodrome geographical and administrative data

1	机场基准点坐标及其在机场的位置 ARP coordinates and site at AD	N49°33.9′ E117°20.0′ 200m E of RWY center
2	机场基准点与城市的位置关系 Direction and distance from city	260° GEO, 9km from the railway station of Manzhouli
3	机场标高、基准温度、低温均值 ELEV/Reference temperature/Mean low temperature	679.5 m/28.4℃(JUL)/-29.3℃(JAN)
4	机场标高位置的大地水准面波幅 Geoid undulation at AD ELEV PSN	
5	磁差（测量年份）及年变率 VAR(Year)/Annual change	10°15′W(2021)/-
6	机场管理部门、地址、电话、传真、AFS 地址、电子邮箱、网址 AD administration/Address/Telephone/Telefax/ AFS/ E-mail/Website	Manzhouli Xijiao Airport CO. LTD Southwest 9km from city center, Manzhouli, Inner Mongolia Autonomous Region, China. Post code:021400 TEL:86-470-6246017 FAX:86-470-6246018 E-mail:xiaoyuan_ma@hnaport.com
7	允许飞行种类 Types of traffic permitted(IFR/VFR)	IFR-VFR
8	机场性质/飞行区指标 Military or civil airport/Reference code	CIVIL/4D
9	备注 Remarks	Nil

ZBMZ AD 2.3 工作时间 Operational hours

1	机场开放时间 AD Operational hours	H24
2	海关和移民 Customs and immigration	HS or O/R
3	卫生健康部门 Health and sanitation	HS or O/R
4	航空情报服务讲解室 AIS Briefing Office	HS or O/R

5	空中交通服务报告室 ATS Reporting Office	HS or O/R
6	气象服务讲解室 MET Briefing Office	HS or O/R
7	空中交通服务 Air Traffic Service	HS or O/R
8	加油服务 Fuelling	HS or O/R
9	地勤服务 Handling	HS or O/R
10	安保服务 Security	HS or O/R
11	除冰服务 De-icing	HS or O/R
12	备注 Remarks	Nil

ZBMZ AD 2.4 地勤服务和设施 Handling services and facilities

1	货物装卸设施 Cargo-handling facilities	Luggage towing vehicle, platform lift, conveyor belt truck, fork
2	燃油牌号 Fuel types	Jet Fuel No.3
3	滑油牌号 Oil types	Nil
4	加油设施/能力 Fuelling facilities & Capacity	Refueling trucks (18500 liters, 20000 liters, 45000 liters)
5	除冰设施 De-icing facilities	2 de-icers
6	过站航空器机库 Hangar space for visiting aircraft	Nil
7	过站航空器的维修设施 Repair facilities for visiting aircraft	Nil
8	备注 Remarks	Nil

ZBMZ AD 2.5 旅客设施 Passenger facilities

1	宾馆 Hotels	In the city

2	餐饮 Restaurants	At AD
3	交通工具 Transportation	Passenger's coaches, taxis
4	医疗设施 Medical facilities	First-aid office at AD
5	银行和邮局 Bank and Post Office	In the city
6	旅行社 Tourist Office	In the city
7	备注 Remarks	Nil

ZBMZ AD 2.6 援救与消防服务 Rescue and fire fighting services

1	机场消防等级 AD category for fire fighting	CAT 6
2	援救设备 Rescue equipment	Primary foam tender, heavy-load foam tender, illumination truck, command car;
3	搬移受损航空器的能力 Capability for removal of disabled aircraft	B767-200 and below
4	备注 Remarks	Nil

ZBMZ AD 2.7 可用季节- 扫雪 Seasonal availability-clearing

1	可用季节及扫雪设备类型 Seasonal availability/Types of clearing equipment	All seasons snow blowers, multifunctional snow vehicles, snow slingers
2	扫雪顺序 Clearance priorities	RWY, TWY, Apron
3	备注 Remarks	Nil

ZBMZ AD 2.8 停机坪、滑行道及校正位置数据 Aprons, taxiways and check locations data

1	停机坪道面和强度 Apron surface and strength	道面 Surface	CONC
		强度 Strength	PCR 680/R/A/W/T
2	滑行道宽度、道面和强度	宽度	23m

	Taxiway width, surface and strength	Width	
		道面 Surface	CONC
		强度 Strength	PCR 680/R/A/W/T
3	高度表校正点的位置及其标高 ACL location and elevation	Nil	
4	VOR 校正点 VOR checkpoints	Nil	
5	INS 校正点 INS checkpoints	Nil	
6	备注 Remarks	Nil	

ZBMZ AD 2.9 地面活动引导和管制系统与标识
Surface movement guidance and control system and markings

1	航空器机位号码标记牌、滑行道引导线、航空器目视停靠引导系统的使用 Use of aircraft stand ID signs, TWY guide lines and visual docking / parking guidance system of aircraft stands	Taxiing guidance signs at all intersections of TWY and RWY. Taxiing guidance signs at all holding positions. Aircraft stand identification sign boards at all stands. Guide lines at all TWYs. Guide lines at all aprons.	
2	跑道和滑行道标志及灯光 RWY and TWY marking and LGT	跑道标志 RWY markings	Pre-threshold area, THR, RWY designation, edge line, RWY center line, TDZ, aiming point
		跑道灯光 RWY lights	RTHL, WBAR, REDL, RENL
		滑行道标志 TWY markings	Edge line, center line, TWY shoulder marking, RWY holding position, runway turn pad
		滑行道灯光 TWY lights	Edge line lights , RWY turn pad lights
3	停止排灯和跑道警戒灯 Stop bars and runway guard lights	Runway guard lights	
4	其它跑道保护措施 Other runway protection measures	Nil	
5	备注 Remarks	Nil	

ZBMZ AD 2.10 机场障碍物 Aerodrome obstacles

半径 15 千米内主要障碍物 (相对 12/30 跑道中心) Obstacles within a circle with a radius of 15km (centered on the center of RWY 12/30)					
障碍物名称或编号 Obstacle ID/ Designation	障碍物类型 Obstacle type	障碍物位置 磁方位(°)/距离(m) Obstacle position MAG BRG(degree)/DIST(m)	标高或(高) Elevation /(Height) (m)	障碍物标志，灯光类型及颜色 Obstacle marking /Lighting Type & Colour	影响的飞行程序及起飞航径区/备注 Flight procedure/take-off path area affected & Remarks
1	2	3	4	5	6
TOWER 001	TOWER	003/6784	884.6	LGT	
WINDMILL 002	WINDMILL	110/12336	863.2		
WINDMILL 003	WINDMILL	110/12721	858.6		
WINDMILL 004	WINDMILL	112/11030	901.9		
WINDMILL 005	WINDMILL	112/11595	898.7		
WINDMILL 006	WINDMILL	112/11928	890.7		
TOWER 007	TOWER	113/10255	922.0		RWY12 take-off path
NATURAL_HIGHPOINT 008	NATURAL_HIGHPOINT	116/9617	855		RWY12 take-off path
WINDMILL 009	WINDMILL	116/11025	903.9		
WINDMILL 010	WINDMILL	116/11240	906.3		
TOWER 011	TOWER	116/11279	901.6		
WINDMILL 012	WINDMILL	116/13148	846.4		
NATURAL_HIGHPOINT 013	NATURAL_HIGHPOINT	117/4120	700		
WINDMILL 014	WINDMILL	119/12383	855.9		

半径 15 千米内主要障碍物 (相对 12/30 跑道中心)
Obstacles within a circle with a radius of 15km (centered on the center of RWY 12/30)

障碍物名称或编号 Obstacle ID/ Designation	障碍物类型 Obstacle type	障碍物位置 磁方位(°)/距离(m) Obstacle position MAG BRG(degree)/DIST(m)	标高或(高) Elevation /(Height) (m)	障碍物标志，灯光类型及颜色 Obstacle marking /Lighting Type & Colour	影响的飞行程序及起飞航径区/备注 Flight procedure/take-off path area affected & Remarks
WINDMILL 015	WINDMILL	120/11746	878.9		
NATURAL_HIGHPOINT 016	NATURAL_HIGHPOINT	123/6025	730		RWY12 take-off path
NATURAL_HIGHPOINT 017	NATURAL_HIGHPOINT	123/6223	740		RWY12 take-off path
NATURAL_HIGHPOINT 018	NATURAL_HIGHPOINT	125/6105	740		
NATURAL_HIGHPOINT 019	NATURAL_HIGHPOINT	125/6262	750		
NATURAL_HIGHPOINT 020	NATURAL_HIGHPOINT	126/9368	930		
NATURAL_HIGHPOINT 021	NATURAL_HIGHPOINT	128/9231	940		RWY12 Departure
NATURAL_HIGHPOINT 022	NATURAL_HIGHPOINT	129/9402	941.6		
WINDMILL 023	WINDMILL	131/9024	1020.6		Sector; CAT C, D Circling; RWY12 departure turning, ILS/DME missed approach; RWY30 NDB/DME final approach
WINDMILL 024	WINDMILL	133/9039	1017.7		
WINDMILL 025	WINDMILL	135/8923	1005.4		

半径 15 千米内主要障碍物 (相对 12/30 跑道中心)
Obstacles within a circle with a radius of 15km (centered on the center of RWY 12/30)

障碍物名称或编号 Obstacle ID/ Designation	障碍物类型 Obstacle type	障碍物位置 磁方位(°)/距离(m) Obstacle position MAG BRG(degree)/DIST(m)	标高或(高) Elevation /(Height) (m)	障碍物标志，灯光类型及颜色 Obstacle marking /Lighting Type & Colour	影响的飞行程序及起飞航径区/备注 Flight procedure/take-off path area affected & Remarks
NATURAL_HIGHPOINT 026	NATURAL_HIGHPOINT	137/8316	926		
WINDMILL 027	WINDMILL	141/8124	960.3		RWY30 NDB/DME final approach
MT 028	MT	171/4569	756.2		
NATURAL_HIGHPOINT 029	NATURAL_HIGHPOINT	187/10273	896.5		
MT 030	MT	236/5266	793.3		
MT 031	MT	241/3394	789.5		
NATURAL_HIGHPOINT 032	NATURAL_HIGHPOINT	241/3460	790		
TOWER 033	TOWER	270/5721	871.7		CAT B Circling; RWY12 NDB/DME final approach
NATURAL_HIGHPOINT 034	NATURAL_HIGHPOINT	273/8914	857.6		
NATURAL_HIGHPOINT 035	NATURAL_HIGHPOINT	280/2640	670.0		
NATURAL_HIGHPOINT 036	NATURAL_HIGHPOINT	283/10921	837.5		
MT 037	MT	293/6330	756.2		RWY30 take-off path
MT 038	MT	297/4796	704		

半径 15 千米内主要障碍物 (相对 12/30 跑道中心)
Obstacles within a circle with a radius of 15km (centered on the center of RWY 12/30)

障碍物名称或编号 Obstacle ID/ Designation	障碍物类型 Obstacle type	障碍物位置 磁方位(°)/距离(m) Obstacle position MAG BRG(degree)/DIST(m)	标高或(高) Elevation /(Height) (m)	障碍物标志，灯光类型及颜色 Obstacle marking /Lighting Type & Colour	影响的飞行程序及起飞航径区/备注 Flight procedure/take-off path area affected & Remarks
NATURAL_HIGHPOINT 039	NATURAL_HIGHPOINT	300/4484	690		
NATURAL_HIGHPOINT 040	NATURAL_HIGHPOINT	303/9194	820.0		RWY12 GP INOP, NDB/DME final approach; RWY30 take-off path

半径 15 千米-50 千米内主要障碍物 (相对 12/30 跑道中心)
Obstacles between two circles with the radius of 15km and 50km (centered on the center of RWY 12/30)

障碍物名称或编号 Obstacle ID/ Designation	障碍物类型 Obstacle type	障碍物位置 磁方位(°)/距离(m) Obstacle position MAG BRG(degree)/DIST(m)	标高或(高) Elevation /(Height) (m)	障碍物标志、灯光类型及颜色 Obstacle marking /Lighting Type & Colour	影响的飞行程序及起飞航径区/备注 Flight procedure/take-off path area affected & Remarks
MT 041	MT	041/31040	1140		Sector
WINDMILL 042	WINDMILL	119/18114	973		
WINDMILL 043	WINDMILL	119/18461	945		
WINDMILL 044	WINDMILL	120/18186	1027		
WINDMILL 045	WINDMILL	122/18268	1032		
WINDMILL 046	WINDMILL	123/16292	978		
WINDMILL 047	WINDMILL	123/16312	942		
WINDMILL 048	WINDMILL	124/16216	1021		
MT 049	MT	125/16066	963		

半径 15 千米-50 千米内主要障碍物 (相对 12/30 跑道中心)
Obstacles between two circles with the radius of 15km and 50km (centered on the center of RWY 12/30)

障碍物名称或编号 Obstacle ID/ Designation	障碍物类型 Obstacle type	障碍物位置 磁方位(°)/距离(m) Obstacle position MAG BRG(degree)/DIST(m)	标高或(高) Elevation /(Height) (m)	障碍物标志、灯光类型及颜色 Obstacle marking /Lighting Type & Colour	影响的飞行程序及起飞航径区/备注 Flight procedure/take-off path area affected & Remarks
WINDMILL 050	WINDMILL	125/16083	1055		RWY30 ILS/DME, RNP ILS/DME, NDB/DME intermediate approach, RWY30 GP INOP final approach
WINDMILL 051	WINDMILL	126/15839	1039		
WINDMILL 052	WINDMILL	128/15252	1011		
MT 053	MT	137/17644	1008		
MT 054	MT	227/41625	960		Sector
MT 055	MT	266/48028	978		
WINDMILL 056	WINDMILL	270/16362	895		RWY12 NDB/DME intermediate approach
WINDMILL 057	WINDMILL	270/16666	886		RWY12 RNP ILS/DME initial approach, ILS/DME intermediate approach
MT 058	MT	294/18317	864		RWY12 RNP ILS/DME intermediate approach

Remarks:

ZBMZ AD 2.11 提供的气象情报、气象观测和报告
Meteorological information provided & meteorological observations and reports

提供的气象情报
Meteorological information provided

1	相关气象台的名称 Associated MET Office	Manzhouli Xijiao Aerodrome control center MET Office
2	气象服务时间、服务时间以外的责任气象台 Hours of service/MET Office outside hours	HO
3	负责编发 TAF 的气象台、有效时段、发布间隔	Manzhouli Xijiao Aerodrome MET Office;9h, 24h;3h, 6h

	Office responsible for TAF preparation/Periods of validity/Interval of issuance	
4	趋势预报及发布间隔 Trend forecast/Interval of issuance	trend 1h
5	所提供的讲解或咨询服务 Briefing/Consultation provided	Briefing provided: T
6	飞行文件及其使用语言 Flight documentation/Language(s) used	Chart, International MET Codes, Abbreviated Plain Language Text;Ch, En
7	讲解或咨询服务时可利用的图表和其它信息 Charts and other information available for briefing or consultation	Briefing provided: Synoptic charts, significant weather charts, upper W/T charts, AWOS real-time data
8	提供气象情报的辅助设备 Supplementary equipment available for providing information	FAX, MET Service Terminal
9	提供气象情报的空中交通服务单位 ATS units provided with information	Manzhouli TWR
10	其他信息 Additional information	Observation: 86-470-2933029 Forecast: 86-470-6246025
气象观测和报告 Meteorological observations and reports		
1	机场观测类型与频率、自动观测设备 Type & frequency of observation /Automatic observation equipment	Hourly plus special observation/Yes
2	气象报告类型及所包含的补充资料 Type of MET Report/Supplementary information included	METAR, SPECI
3	观测系统及安装位置 Observation system/Site(s)	RVR EQPT A: 120m S of RCL, 385m inward THR30; B: 120m S of RCL, 1400m inward THR30; C: 120m S of RCL, 365m inward THR12. SFC wind sensors RWY12: 120m S of RCL, 355m inward THR 12; RWY center: 120m S of RCL, 1390m inward THR30; RWY 30: 120m S of RCL, 358m inward THR 30. Ceilometer RWY12: 120m S of RCL, 345m inward THR12; RWY30: on the RCL, 1020m outward of THR30.
4	观测系统的工作时间 Hours of operation for meteorological observation system	HO
5	气候资料	Nil

	Climatological information	
6	其他信息 Additional information	Nil

ZBMZ AD 2.12 跑道物理特征 Runway physical characteristics

跑道号码 RWY Designator	真方位和磁方位 TRUE & MAG BRG	跑道长宽 Dimensions of RWY(m)	跑道强度、跑道和停止道道面 RWY strength/ Surface of RWY /SWY	跑道入口坐标、跑道末端坐标、跑道入口大地水准面波幅 THR coordinates & RWY end coordinates & THR geoid undulation	跑道入口标高和精密进近跑道接地带最高标高 THR elevation & highest elevation of TDZ of precision APP RWY	跑道和停止道坡度 Slope of RWY/SWY
1	2	3	4	5	6	7
12	107.22° GEO 117° MAG	2800×45	PCR 660/R/A/W/T CONC/CONC	Nil	THR 669.2m	0.37%
30	287.22° GEO 297° MAG	2800×45	PCR 660/R/A/W/T CONC/CONC	Nil	THR 679.5m	-0.37%

跑道号码 RWY Designator	停止道长宽 SWY dimensions (m)	净空道长宽 CWY dimensions (m)	升降带长宽 Strip dimensions (m)	跑道端安全区长宽 RESA dimensions (m)	拦阻系统的位置及描述 Location& Description of arresting system	无障碍物区 OFZ
1	8	9	10	11	12	13
12	60×45	800×300	2920×300	300×120	Nil	Nil
30	60×45	200×300	2920×300	300×120	Nil	Nil
Remarks:						

ZBMZ AD 2.13 公布距离 Declared distances

跑道号码 RWY Designator	可用起飞滑跑距离 TORA(m)	可用起飞距离 TODA(m)	可用加速停止距离 ASDA(m)	可用着陆距离 LDA(m)	备注 Remarks
1	2	3	4	5	6
12	2800	3600	2860	2800	Nil
30	2800	3000	2860	2800	Nil

ZBMZ AD 2.14 进近和跑道灯光 Approach and runway lighting

跑道号码 RWY Designator	进近灯类型、长度、强度 APCH LGT type/ LEN/ /INTST	入口灯颜色、翼排灯 THR LGT colour/ WBAR	目视进近坡度指示系统类型、位置、仰角、跑道入口最低眼高 Type of VASIS/Position /Angle/MEHT	接地带灯长度 TDZ LGT LEN	跑道中线灯长度、间隔、颜色、强度 RWY center line LGT LEN/Spacing /Colour/INTST	跑道边灯长度、间隔、颜色、强度 RWY edge LGT LEN/Spacing /Colour/INTST	跑道末端灯颜色 RWY end LGT colour	停止道灯长度、颜色 SWY LGT LEN /Colour
1	2	3	4	5	6	7	8	9
12	PALS CAT I 900 m LIH	GREEN Yes	PAPI LEFT 326m inward THR12 3° 16.9m	Nil	Nil	2800 m spacing 60m 0-2200m, WHITE 2200-2800m, YELLOW VRB LIH	RED	Nil
30	PALS CAT I 900 m LIH	GREEN Yes	PAPI LEFT 350m inward THR30 3° 16.2m	Nil	Nil	2800 m spacing 60m 0-2200m, WHITE 2200-2800m, YELLOW VRB LIH	RED	Nil
Remarks:								

ZBMZ AD 2.15 其它灯光,备份电源 Other lighting, secondary power supply

1	机场灯标或识别灯标位置、特性和工作时间 ABN/IBN location, characteristics and hours of operation	Nil
2	着陆方向标和风向标位置和灯光 LDI/ WDI location and LGT	WDI: 12:116m N of RWY12/30 CL, 300m inward THR12, with LGT 30:132m S of RWY12/30 CL, 400m inward THR30, with LGT
3	滑行道边灯和滑行道中线灯 TWY edge and center line lighting	All TWYs: blue edge line lights
4	备份电源及转换时间 Secondary power supply/Switch-over time	Secondary power supply available/ 15 sec
5	备注 Remarks	Nil

ZBMZ AD 2.16 直升机着陆区域 Helicopter landing area

1	TLOF 坐标或 FATO 入口坐标及大地水准面波幅 Coordinates TLOF or THR of FATO, Geoid undulation	Nil
2	TLOF 和（或）FATO 标高 TLOF and/or FATO elevation	Nil
3	TLOF 和 FATO 区域范围、道面、强度和标志 TLOF and FATO area dimensions,surface, strength, marking	Nil
4	FATO 的真方位和磁方位 True and MAG BRG of FATO	Nil
5	公布距离 Declared distance available	Nil
6	进近灯光和 FATO 灯光 APP and FATO lighting	Nil
7	备注 Remarks	Nil

ZBMZ AD 2.17 空中交通服务空域 ATS airspace

空域名称和水平范围 Designation and lateral limits		垂直范围 Vertical limits	空域分类 Airspace class	空中交通服务单位呼号和使用语言 ATS unit callsign Language	工作时间 Hours of applicability	备注 Remarks
1	2	3	4	5	6	7
Manzhouli tower control area	A circle, radius 55km centered at VOR/DME(MZL) (within China territory)	SFC-3900m MSL				
Altimeter setting region and TL/TA	A circle, radius 55km centered at VOR/DME(MZL) (within China territory)	TL 3600m TA 3000m 3300m(QNH≥1031hPa) 2700m(QNH≤979hPa)				

ZBMZ AD 2.18 空中交通服务通信设施 ATS communication facilities

服务名称 Service designation	呼号 Callsign	频率 Frequency (MHz)	卫星话音通信号码 SATVOICE number	登录地址 Logon address	工作时间 Hours of operation	备注 Remarks
1	2	3	4	5	6	7
TWR	Manzhouli Tower	118.1 (130.0)			H24	

ZBMZ AD 2.19 无线电导航和着陆设施 Radio navigation and landing aids

设施名称及类型、磁差、支持运行类别、VOR/ILS 磁偏角 Name and type of aid, VAR,Type of supported OPS, Declination of VOR/ILS	识别 ID	频率、波道 Frequency/ Channel number	工作时间 Hours of operation	发射天线坐标及相对位置 Coordinates of transmitting antenna/ Position	DME 发射天线标高 Elevation of DME transmitting antenna	备注 Remarks
1	2	3	4	5	6	7
Manzhouli VOR/DME	MZL	113.1 MHz CH 78X	H24	N49°19.7′ E117°38.7′ 149°MAG/34995m FM the Center of RWY		R320°-R100° clockwise (except R007°, R343°) U/S.
LM 12	G	300 kHz		297°MAG/1700m FM THR12		
LOC 12 ILS CAT I	IMZ	108.5 MHz		117°MAG/290m FM RWY12 end		BTN 17-25NM and beyond ±3° of front course U/S; Beyond +4° and -18° of front course U/S
GP 12		329.9 MHz		120m S of RCL, 310m inside THR12		Angle 3° RDH 15m
DME 12	IMZ	CH 22X (108.5 MHz)				Co-located with GP 12
LMM 30	Z	225 kHz		117°MAG/1050m FM THR30		
LOC 30 ILS CAT I	IZZ	110.1 MHz		297°MAG/290m FM RWY30 end		Beyond -3° of front course U/S; BTN 17-25NM and beyond ±3° of front course U/S

设施名称及类型、磁差、支持运行类别、VOR/ILS 磁偏角 Name and type of aid, VAR,Type of supported OPS, Declination of VOR/ILS	识别 ID	频率、波道 Frequency/ Channel number	工作时间 Hours of operation	发射天线坐标及相对位置 Coordinates of transmitting antenna/ Position	DME 发射天线标高 Elevation of DME transmitting antenna	备注 Remarks
GP 30		334.4 MHz		120m S of RCL, 335m inside THR30		Angle 3° RDH 15.2m
DME 30	IZZ	CH 38X (110.1 MHz)				Co-located with GP 30

ZBMZ AD 2.20 本场规定

1. 机场使用规定

可使用最大机型：B767-200 及同类机型。

2. 跑道和滑行道的使用

2.1 满足下列条件之一时，须转换跑道方向:

2.1.1 当气象自动观测系统显示跑道顺风分量达到 3m/s，且有继续增大趋势时;

2.1.2 湿跑道或者污染跑道条件下，当气象自动观测系统显示跑道为顺风，且有继续增大趋势时。

2.2 在转换使用跑道方向过程中，使用跑道顺风分量大于 3m/s 但小于 5m/s 时，管制员通知航空器驾驶员地面风向、风速后，如果因航空器性能限制等原因无

ZBMZ AD 2.20 Local aerodrome regulations

1.Airport operations regulations

Maximum aircraft to be available: B767-200 and equivalent.

2. Use of runways and taxiways

2.1 If one of the following conditions is met, the runway direction shall be changed:

2.1.1 When the automatic meteorological observation system shows that the downwind component of the runway reaches 3m/s and has a trend of increasing continuously;

2.1.2 Under the condition of wet or contaminated runway, when the automatic meteorological observation system shows that the runway is downwind and has a trend of increasing continuously.

2.2 During changing the operation direction of runway, if downwind speed is more than 3m/s and not exceeding 5m/s, ATC shall inform pilot. If aircraft can not accept it

法接受时，航空器驾驶员应立即告知管制员。

due to performance limitation, the pilot shall inform ATC immediately.

3. 机坪和机位的使用

无

3. Use of aprons and parking stands

Nil

4. 低能见度运行

无

4. Low visibility operation

Nil

5. 直升机飞行限制，直升机停靠区

无

5. Helicopter operation restrictions and helicopter parking/docking area

Nil

6. 警告

目视盘旋只准在跑道南侧进行。

6. Warning

Circling S of RWY only.

ZBMZ AD 2.21 减噪程序

无

ZBMZ AD 2.21 Noise abatement procedures

Nil

ZBMZ AD 2.22 飞行程序

1. 总则

除经塔台特殊许可外，在塔台管制区内的飞行，必须按照仪表飞行规则进行。

ZBMZ AD 2.22 Flight procedures

1. General

Flights within Tower Control Area shall operate under IFR unless special clearance has been obtained from Tower Control.

2. 起落航线

起落航线只允许在跑道南侧进行，高度 1000-1200 米。

2. Traffic circuits

Traffic circuits shall be made to the south of RWY, at the altitudes of 1000m-1200m.

3. 仪表飞行程序

严格按照航图中公布的进、离场和进近程序飞行。如果需要，航空器可在空中交通管制部门指定的航路、

3. IFR flight procedures

Strict adherence is required to the relevant arrival/departure/ approach procedures published in the

导航台或定位点上空等待或做机动飞行。

aeronautical charts. Aircraft may, if necessary, hold or maneuver on an airway, over a navigation facility or a fix designated by ATC.

4. 雷达程序和/或 ADS-B 程序

无

4. Radar procedures and/or ADS-B procedures

Nil

5. 无线电通信失效程序

参见 AIP GEN3.4.5 中的仪表飞行规则航空器地空双向无线电通信失效通用程序。

5. Radio communication failure procedures

Refer to AIP GEN3.4.5 general procedures for aircraft under instrument flight rule with air-ground two-way radio communication failure.

本场可提供灯光信号（灯光信号在塔台），请注意观察。

The airport provides light signals(in the tower), please pay attention.

6. 目视飞行程序

无

6. Procedures for VFR flights

Nil

7. 目视飞行航线

无

7. VFR route

Nil

8. 其它规定

无

8. Other regulations

Nil

ZBMZ AD 2.23 其它资料

鸟情资料

机场不定期出现鸟类集居情况，主要种类是麻雀、百灵和雀鹰，机场配备了专用驱鸟设备。

ZBMZ AD 2.23 Other information

Bird’s information

Flocks of birds are found sometimes at AD, main type is sparrow, lark and sparrow hawk, and AD equipped with special bird dispersal equipment.

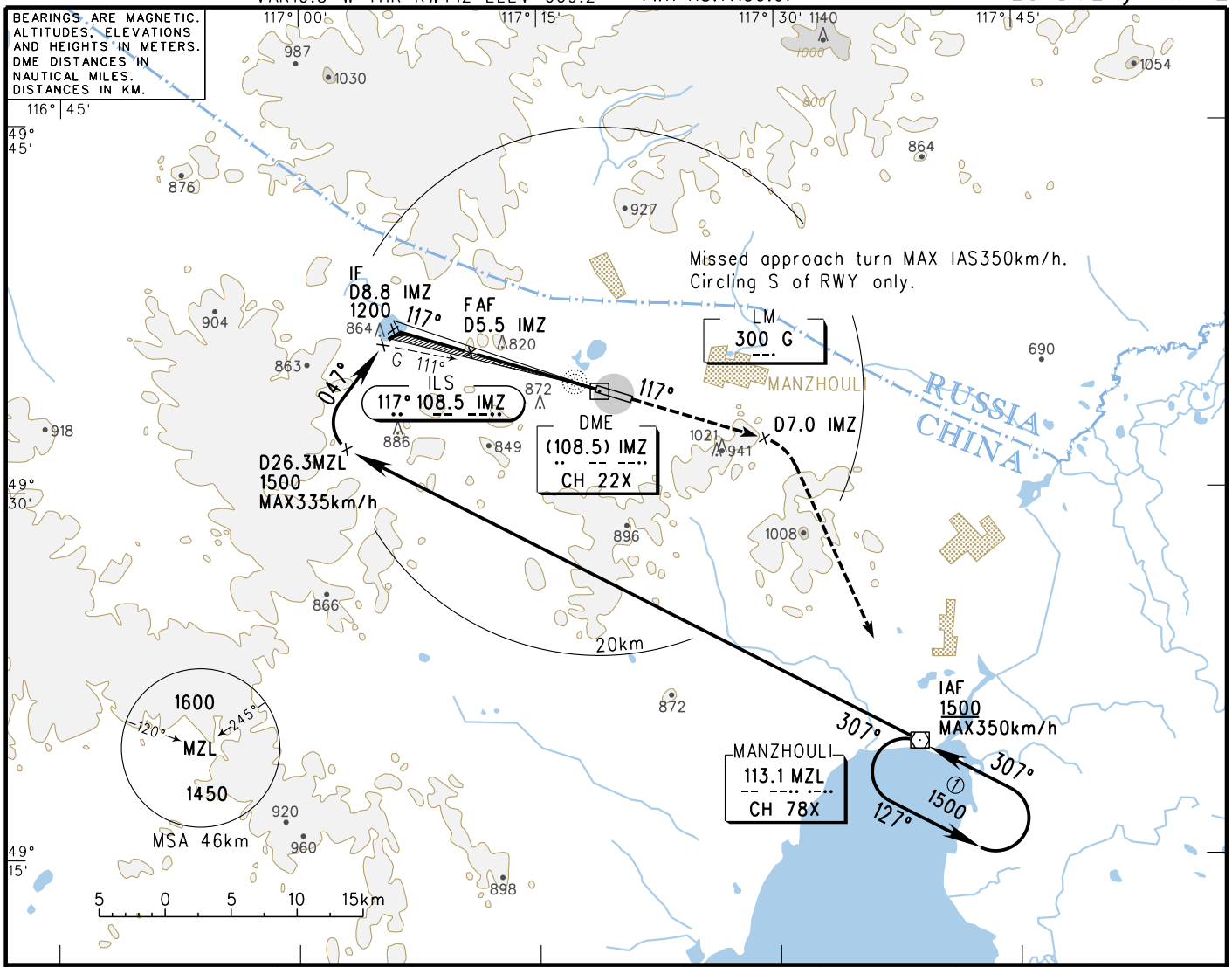
Activity season	Activity area	Flight altitude(m)	Sociability
Spring	AD circum	0-50	Alone

Summer	AD area	0-200	Gregarious
Autumn	AD area	0-200	Gregarious
Winter	AD circum	0-50	Alone

INSTRUMENT APPROACH CHART-ICAO

AERODROME ELEV 679.5
VAR10.3° W THR RWY12 ELEV 669.2
TWR 118.1(130.0)

ZBMZ MANZHOULI/Xijiao
ILS/DME y RWY12

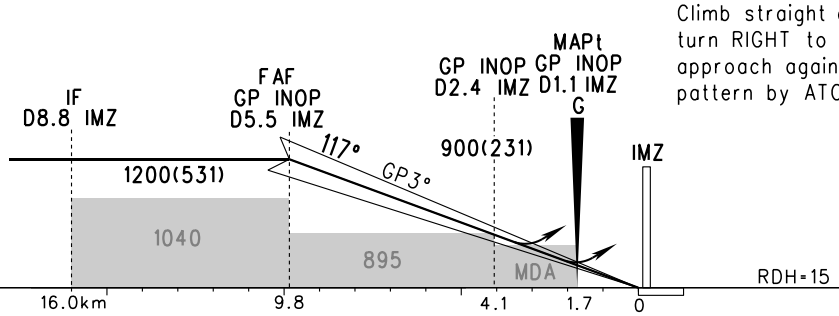


GP INOP	DME (IMZ) (NM)	7	6	5	4	3	2	1
	ALT (m)			1153	1056	959	862	

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

MISSED APPROACH

Climb straight ahead to D7.0 IMZ, turn RIGHT to MZL at 1500, approach again or join in holding pattern by ATC.



		A	B	C	D
ILS/DME Ⓑ	DA(H) RVR/VIS	730(60) Ⓐ 550/800			
ILS/DME Ⓒ	DA(H) RVR/VIS	795(125) 1500/1500		800(130) 1600/1600	
GP INOP	MDA(H) VIS	845(176) 2500			
CIRCLING	MDA(H) VIS	930(251) 3200	965(286) 3200	1145(466) 4400	1145(466) 5000

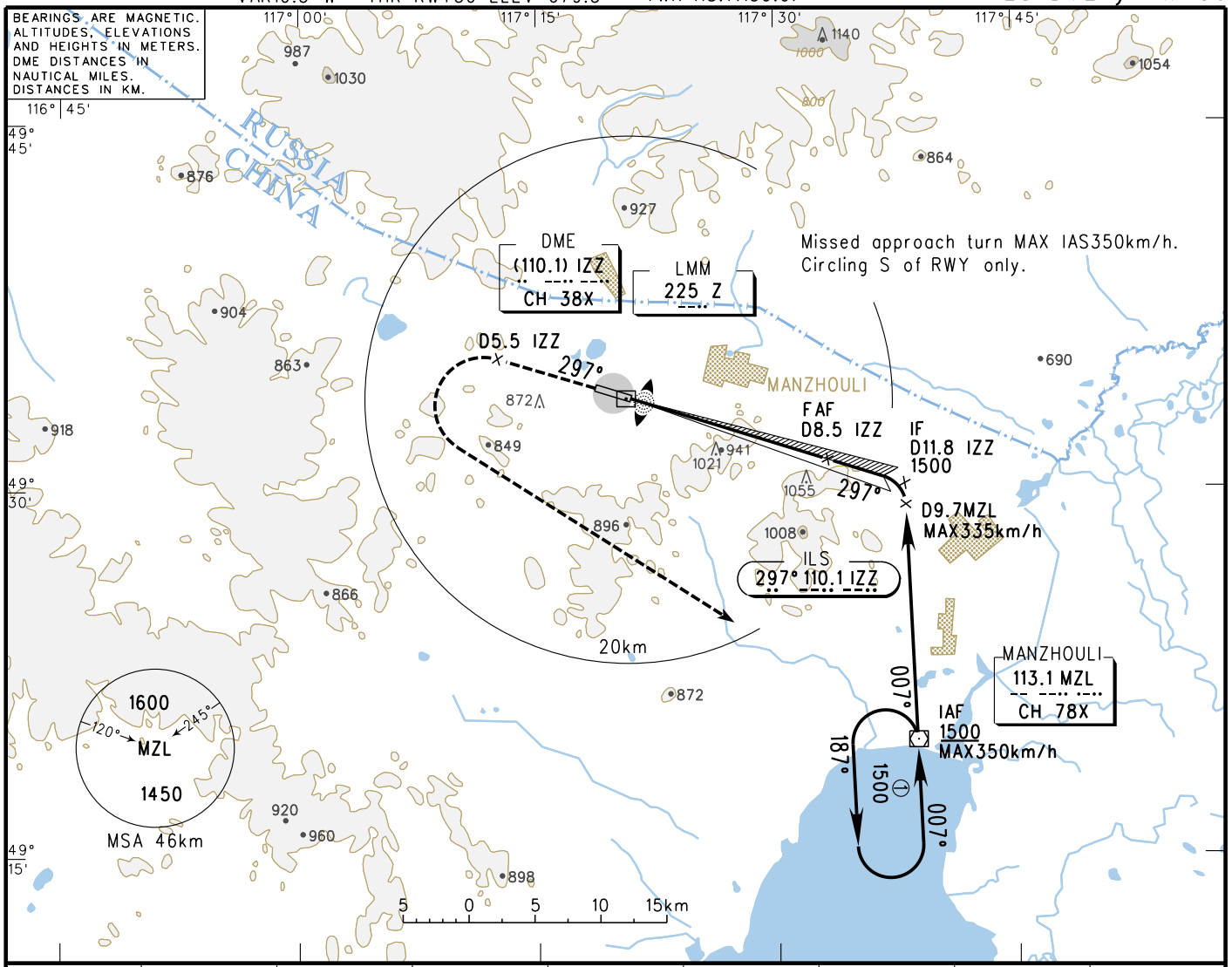
FAF-MAPt(GP INOP) 8.1km						
GS in kt / km/h	80 150	100 185	120 220	140 260	160 295	180 335
Time min:sec	3:17	2:37	2:11	1:52	1:38	1:27
Rate of descent m/s	2.2	2.7	3.2	3.8	4.3	4.9

Ⓐ For ILS/DME: RVR800 for ILS/DME when HUD, AP and FD U/S.
Missed approach climb gradient: Ⓑ 4%, Ⓒ 2.5%

INSTRUMENT APPROACH CHART-ICAO

AERODROME ELEV 679.5
VAR10.3° W THR RWY30 ELEV 679.5 TWR 118.1(130.0)

ZBMZ MANZHOULI/Xijiao
ILS/DME y RWY30

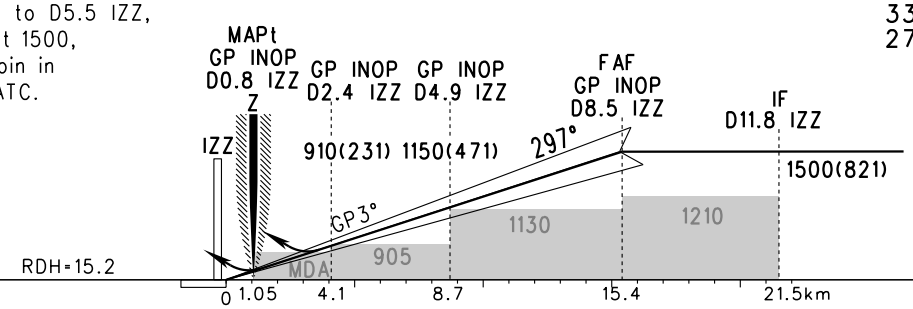


GP INOP	DME (IZZ) (NM)	2	3	4	5	6	7	8
	ALT (m)	872	969	1066	1163	1260	1357	1454

MISSED APPROACH

Climb straight ahead to D5.5 IZZ, turn LEFT to MZL at 1500, approach again or join in holding pattern by ATC.

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



	A	B	C	D
ILS/DME DA(H) RVR/VIS	740(60) ❹ 550/800			
GP INOP MDA(H) VIS	855(176) 2500			
CIRCLING MDA(H) VIS	930(251) 3200	965(286) 3200	1145(466) 4400	1145(466) 5000

FAF-MAPt(GP INOP) 14.35km

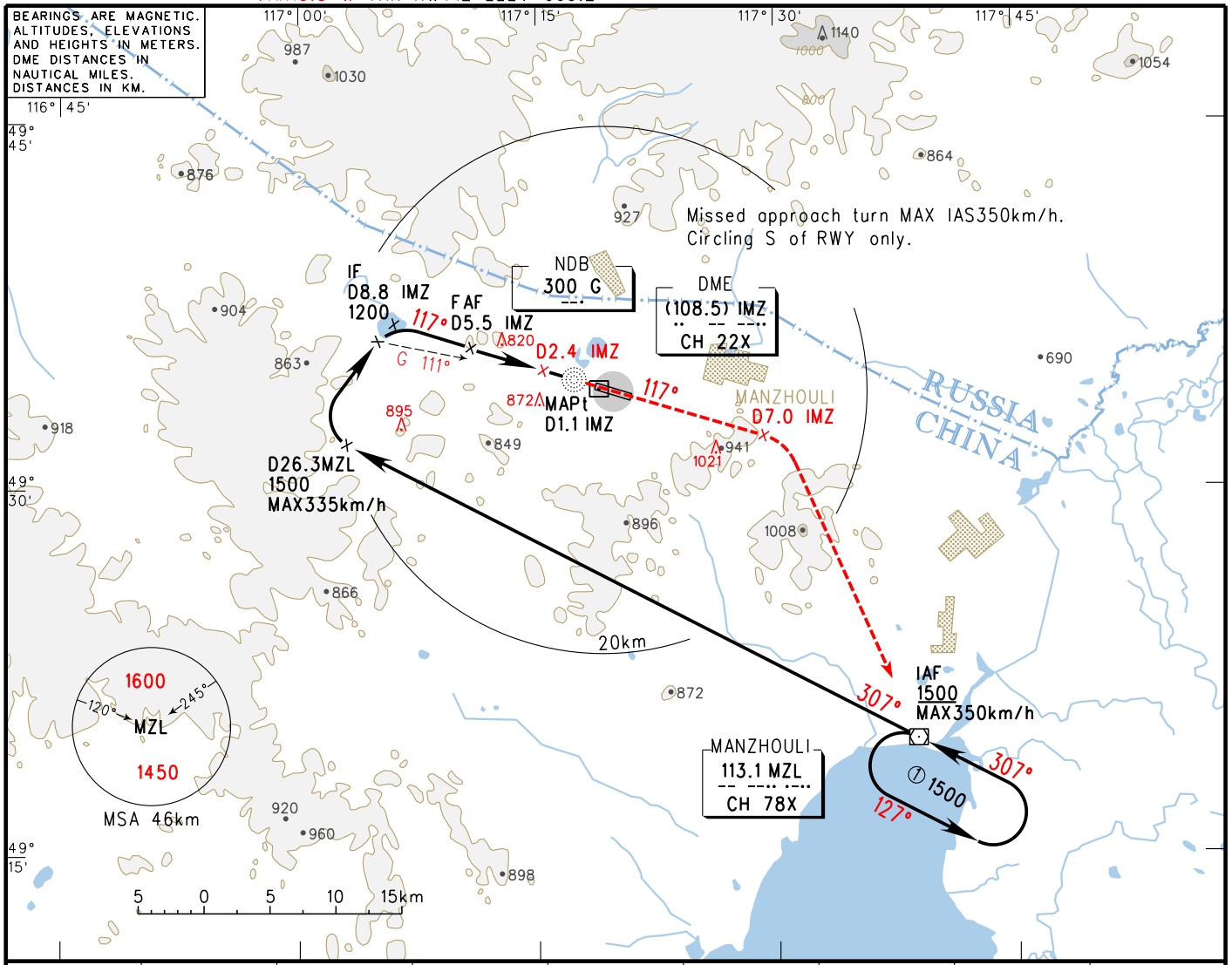
GS in kt / km/h	80 150	100 185	120 220	140 260	160 295	180 335
Time min:sec	5:49	4:39	3:52	3:19	2:54	2:35
Rate of descent m/s	2.2	2.7	3.2	3.8	4.3	4.9

❹ For ILS/DME: RVR800 for ILS/DME when HUD, AP and FD U/S.
Changes: Distance of FAF-MAPt.

INSTRUMENT APPROACH CHART-ICAO

AERODROME ELEV 679.5
VAR10.3° W THR RWY12 ELEV 669.2 TWR 118.1(130.0)

ZBMZ MANZHOULI/Xijiao
NDB/DME RWY12

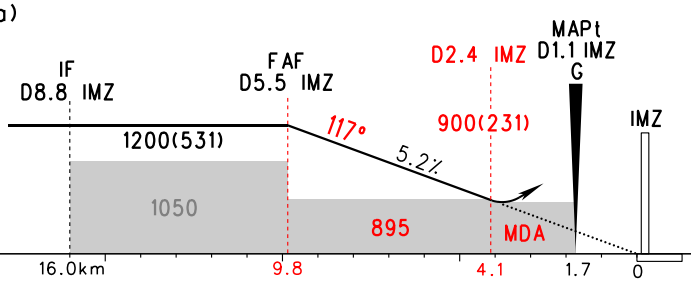


DME (IMZ) (NM)	8	7	6	5	4	3	2	1
ALT (m)				1154	1057	960		

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

MISSED APPROACH

Climb straight ahead to D7.0 IMZ, turn RIGHT to MZL at 1500, approach again or join in holding pattern by ATC.



	A	B	C	D
NDB/DME DA(H) VIS	880(211) 3200			
CIRCLING MDA(H) VIS	930(251) 3200	965(286) 3200	1145(466) 4400	1145(466) 5000

FAF-MAPt(GP INOP) 8.1km

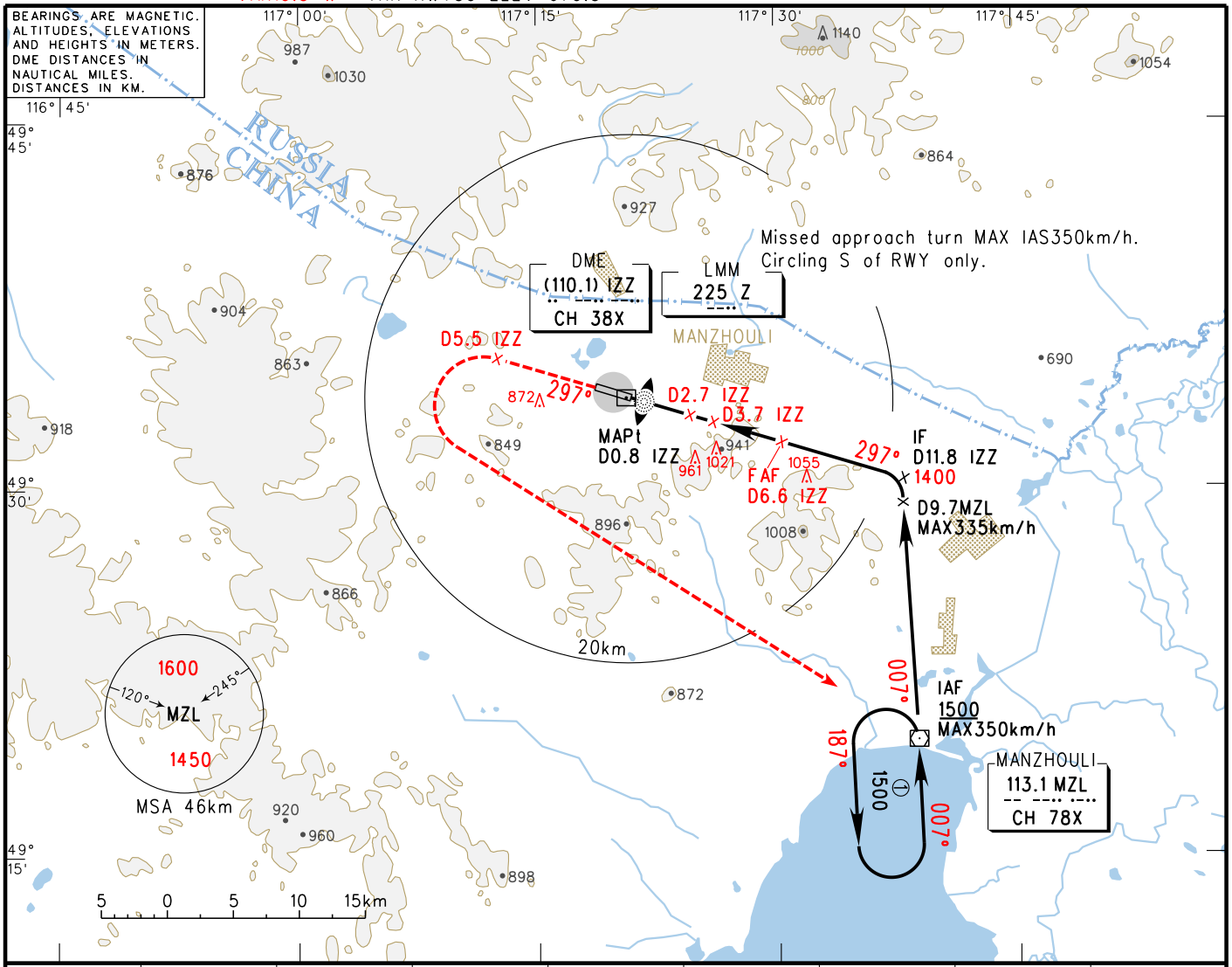
GS in kt / km/h	80 150	100 185	120 220	140 260	160 295	180 335
Time min:sec	3:17	2:37	2:11	1:52	1:38	1:27
Rate of descent m/s	2.2	2.7	3.2	3.8	4.3	4.8

Changes: Procedure.

INSTRUMENT APPROACH CHART-ICAO

AERODROME ELEV 679.5
THR RWY30 ELEV 679.5
VAR10.3° W
TWR 118.1(130.0)

ZBMZ MANZHOULI/Xijiao
NDB/DME RWY30

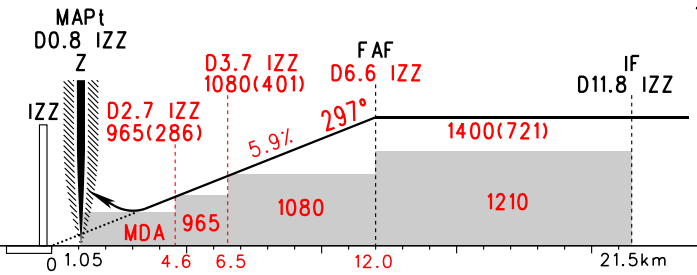


DME (IZZ) (NM)	1	2	3	4	5	6	7	8
ALT (m)		895	1004	1113	1223	1332		

MISSED APPROACH

Climb straight ahead to D5.5 IZZ, turn LEFT to MZL at 1500, approach again or join in holding pattern by ATC.

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



	A	B	C	D
NDB/DME MDA(H) VIS	870(191) 2400			
CIRCLING MDA(H) VIS	930(251) 3200	965(286) 3200	1145(466) 4400	1145(466) 5000

FAF-MAPt(GP INOP) 10.95km

GS in kt km/h	80 150	100 185	120 220	140 260	160 295	180 335
Time min:sec	4:26	3:33	2:57	2:32	2:13	1:58
Rate of descent m/s	2.5	3.0	3.6	4.3	4.8	5.5

Changes: Procedure.

AERODROME CHART

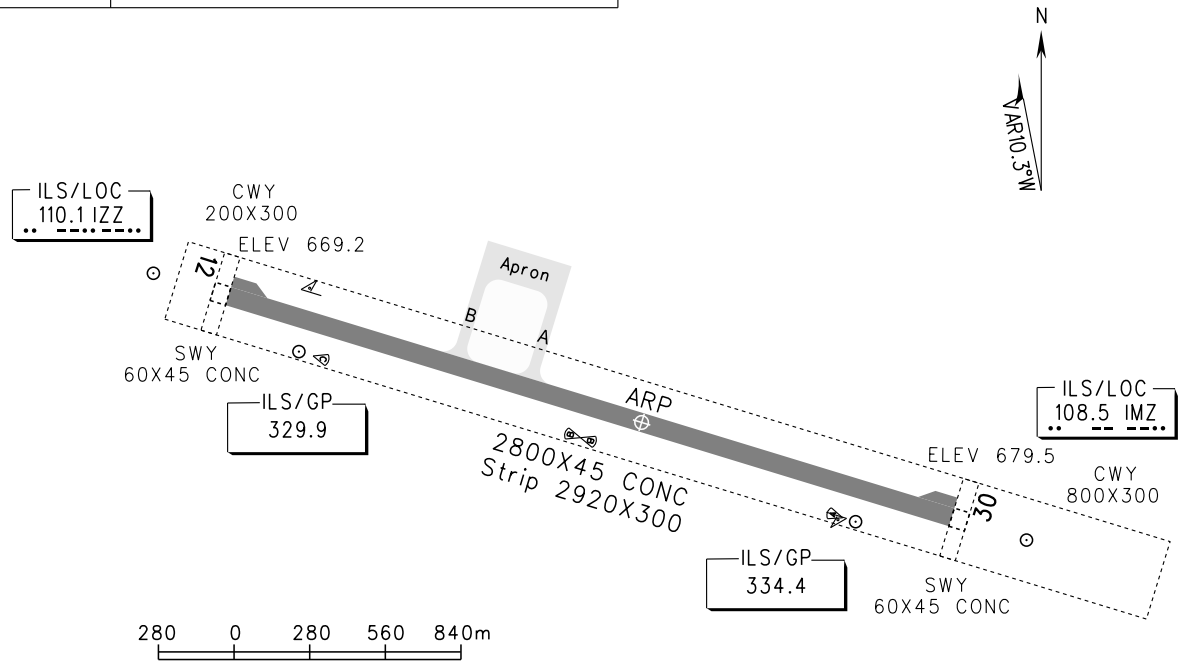
TWR 118.1(130.0)

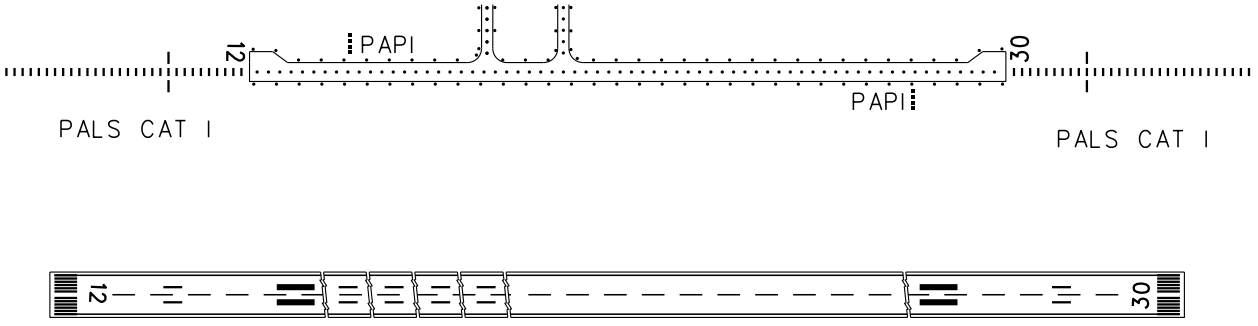
ZBMZ MANZHOULI/Xijiao

N49° 33.9'E117° 20.0' ELEV 679.5m

RWY	Direction	Bearing strength
12	117°	PCR 660/R/A/W/T: RWY12/30 CONC PCR 680/R/A/W/T:TWY PCR 680/R/A/W/T: Apron
30	297°	

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





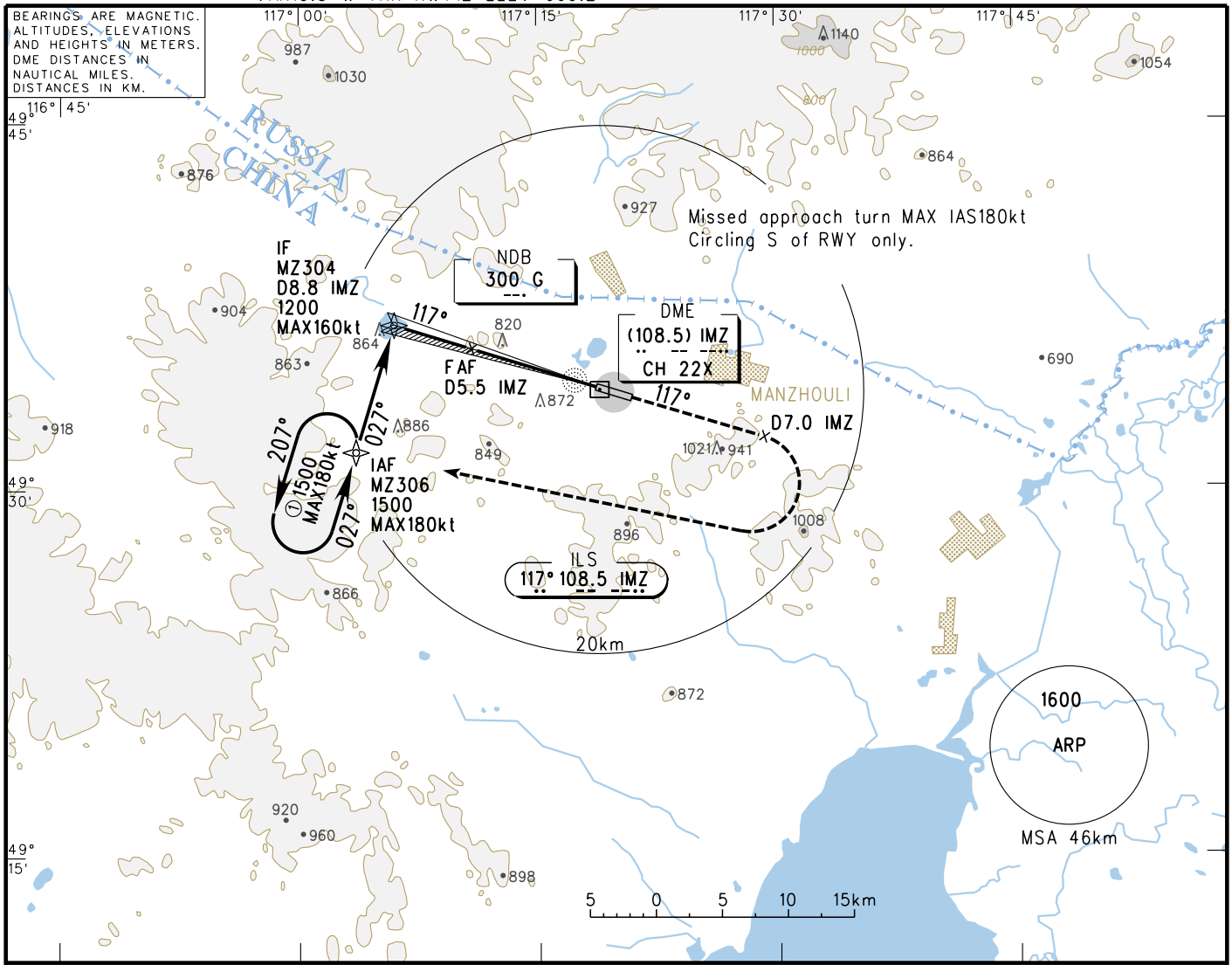
TAKE-OFF MINIMA(WITH RELIABLE ALTN)(m)						LIGHTS	
ACFT Type		RWY12		RWY30		RWY12	RWY30
		REDL	NIL(Day only)	REDL	NIL(Day only)		
2 TURB ENG or 3&4 ENG	A B C D	RVR400 VIS800	RVR500 VIS800	RVR400 VIS800	RVR500 VIS800	PALS CAT I PAPI REDL RENL	PALS CAT I PAPI REDL RENL
Other 1&2 ENG		VIS1600					
Note:							

Changes: PCR.

INSTRUMENT APPROACH CHART-ICAO

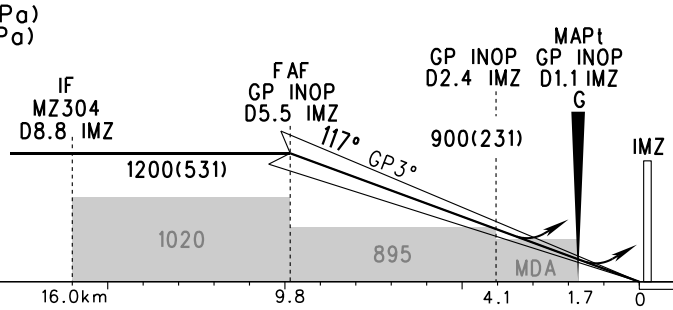
AERODROME ELEV 679.5
VAR10.3° W THR RWY12 ELEV 669.2 TWR 118.1(130.0)

ZBMZ MANZHOULI/Xijiao
RNP ILS/DME z RWY12



GP INOP	DME (IMZ) (NM)	7	6	5	4	3	2	1
	ALT (m)			1153	1056	959	862	

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



MISSED APPROACH

Climb straight ahead to D7.0 IMZ, turn RIGHT to MZ306 at 1500, approach again or join in holding pattern by ATC.

		A	B	C	D
ILS/DME Ⓑ	DA(H) RVR/VIS	730(60) Ⓐ 550/800			
ILS/DME Ⓒ	DA(H) RVR/VIS	795(125) 1500/1500		800(130) 1600/1600	
GP INOP	MDA(H) VIS	845(176) 2500			
CIRCLING	MDA(H) VIS	930(251) 3200	965(286) 3200	1145(466) 4400	1145(466) 5000

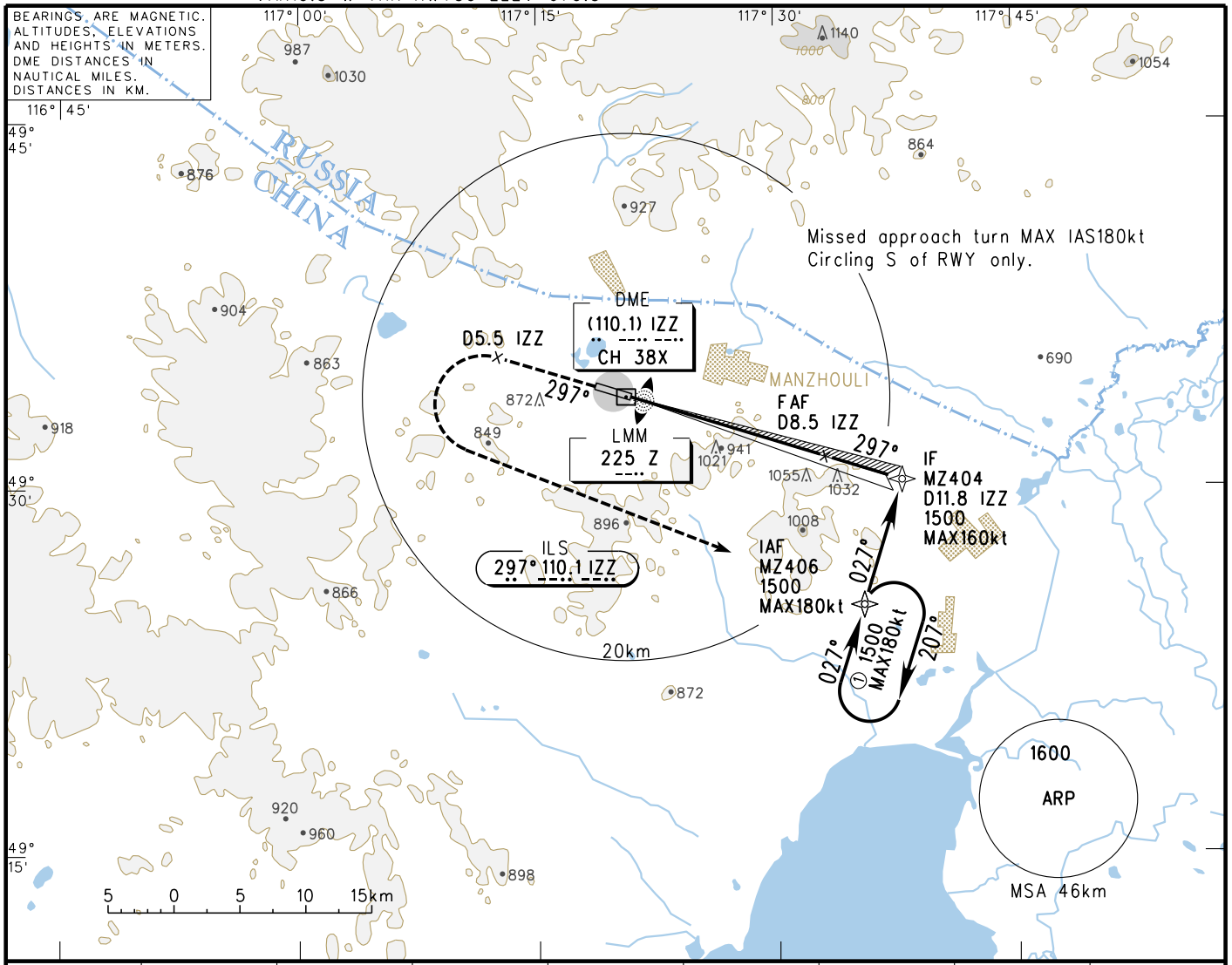
FAF-MAPt(GP INOP) 8.1km						
GS in kt / km/h	80 150	100 185	120 220	140 260	160 295	180 335
Time min:sec	3:17	2:37	2:11	1:52	1:38	1:27
Rate of descent m/s	2.2	2.7	3.2	3.8	4.3	4.9

Ⓐ For ILS/DME: RVR800 for ILS/DME when HUD, AP and FD U/S.
Missed approach climb gradient: Ⓑ 4%, Ⓒ 2.5%

INSTRUMENT APPROACH CHART-ICAO

AERODROME ELEV 679.5
VAR10.3° W THR RWY30 ELEV 679.5 TWR 118.1(130.0)

ZBMZ MANZHOULI/Xijiao
RNP ILS/DME z RWY30

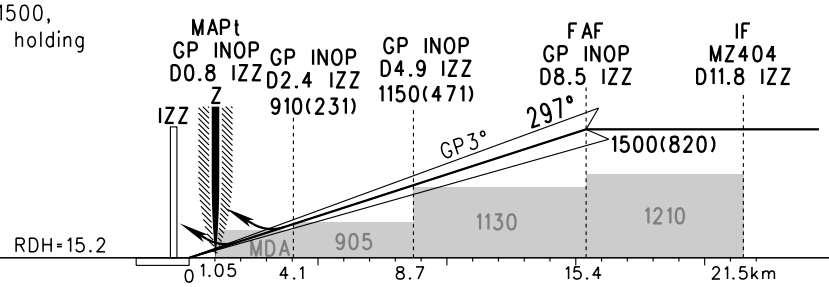


GP INOP	DME (IZZ) (NM)	2	3	4	5	6	7	8
	ALT (m)	872	969	1066	1163	1260	1357	1454

MISSED APPROACH

Climb straight ahead to D5.5 IZZ, turn LEFT to MZ406 at 1500, approach again or join in holding pattern by ATC.

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



	A	B	C	D
ILS/DME DA(H) RVR/VIS	740(60) Ⓐ 550/800			
GP INOP MDA(H) VIS	855(176) 2500			
CIRCLING MDA(H) VIS	930(251) 3200	965(286) 3200	1145(466) 4400	1145(466) 5000

FAF-MAPt(GP INOP) 14.35km

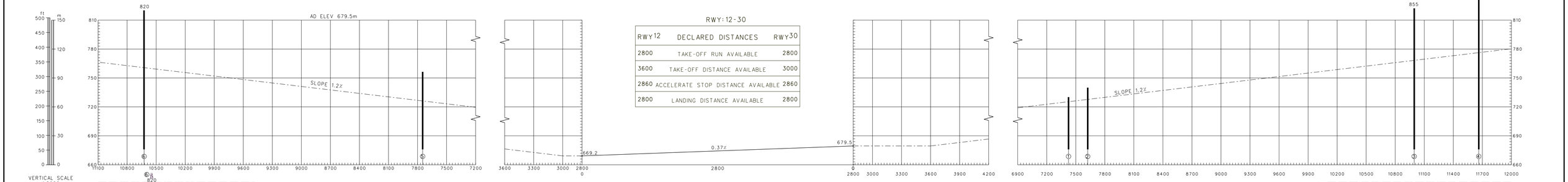
GS in kt / km/h	80 150	100 185	120 220	140 260	160 295	180 335
Time min:sec	5:49	4:39	3:52	3:19	2:54	2:35
Rate of descent m/s	2.2	2.7	3.2	3.8	4.3	4.9

Ⓐ For ILS/DME: RVR800 for ILS/DME when HUD, AP and FD U/S.
Changes: Distance of FAF-MAPt.

AERODROME OBSTACLE CHART-ICAO

TYPE A(OPERATING LIMITATIONS)

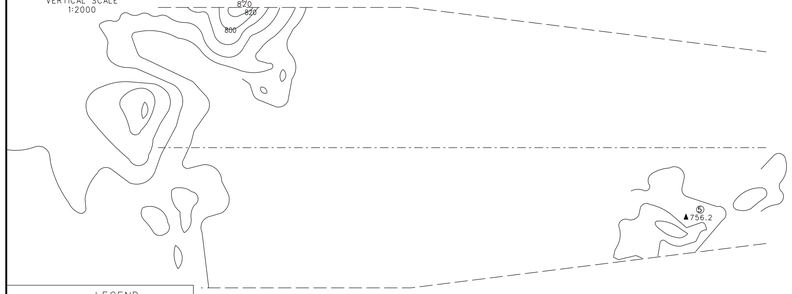
MAGNETIC VARIATION 10.3° W

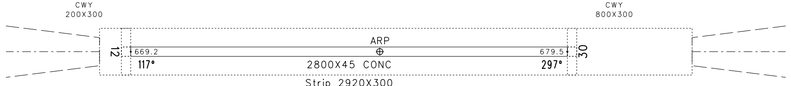


RWY:12-30

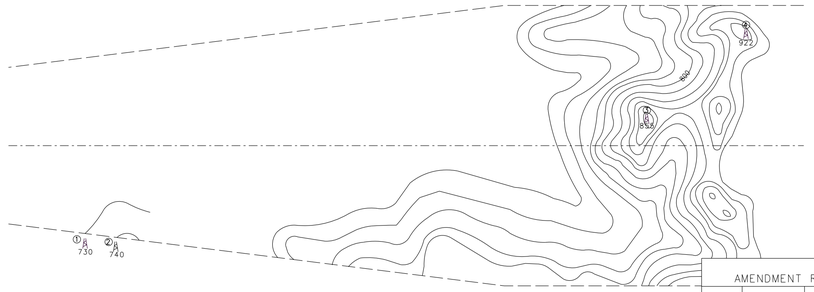
RWY12	DECLARED DISTANCES	RWY30
2800	TAKE-OFF RUN AVAILABLE	2800
3600	TAKE-OFF DISTANCE AVAILABLE	3000
2860	ACCELERATE STOP DISTANCE AVAILABLE	2860
2800	LANDING DISTANCE AVAILABLE	2800

VERTICAL SCALE
1:2000





1:20000
HORIZONTAL SCALE



LEGEND	
①	OBST NR
▲	MOUNTAIN
	IRON TOWER

AMENDMENT RECORD

NR	DATE	ENTERED BY

Changes: New chart.

STANDARD DEPARTURE CHART-INSTRUMENT

VAR10.3° W

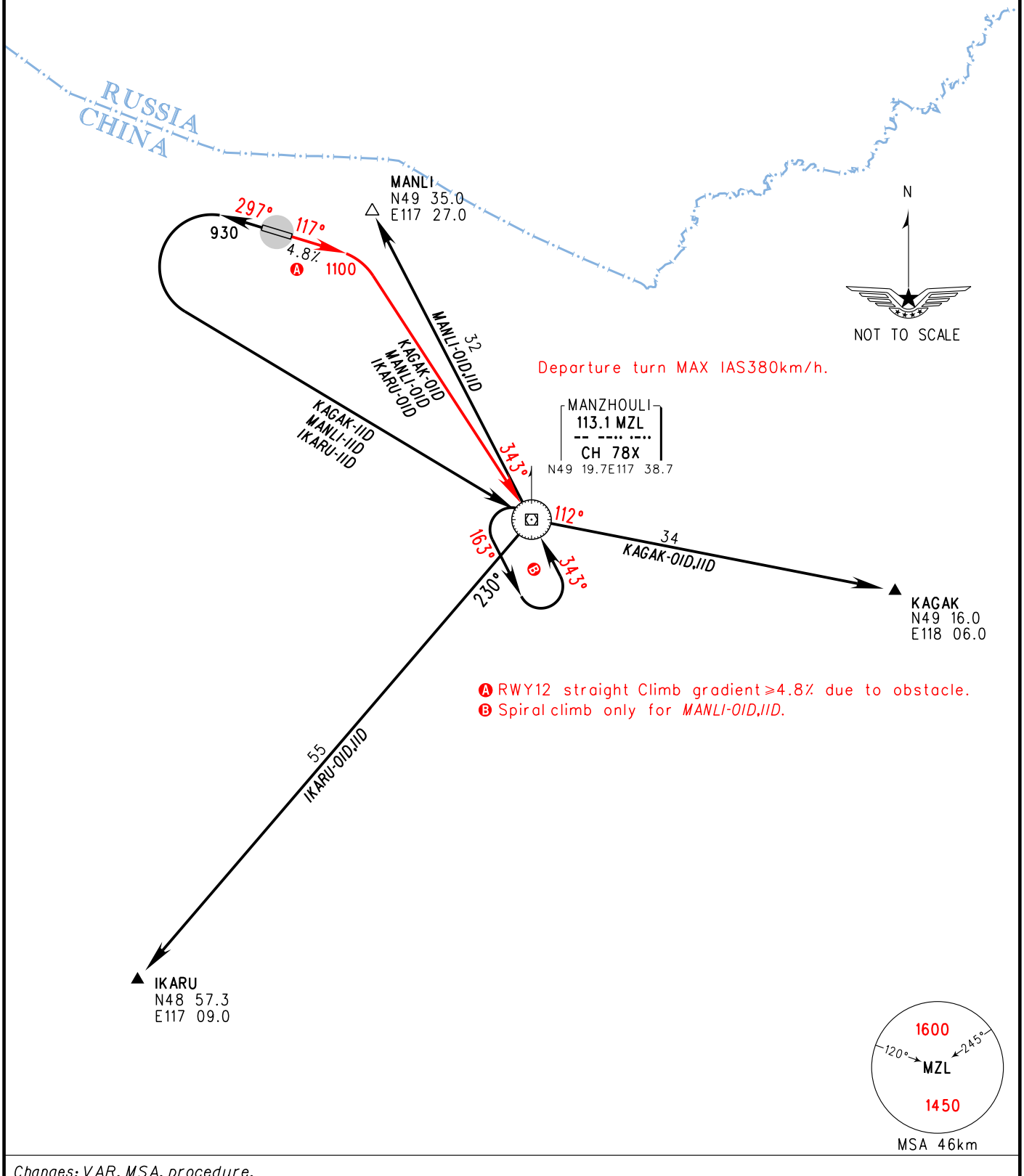
TWR 118.1(130.0)

ZBMZ MANZHOULI/Xijiao

RWY12/30

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: VAR, MSA, procedure.

STANDARD DEPARTURE CHART-INSTRUMENT

VAR10.3° W

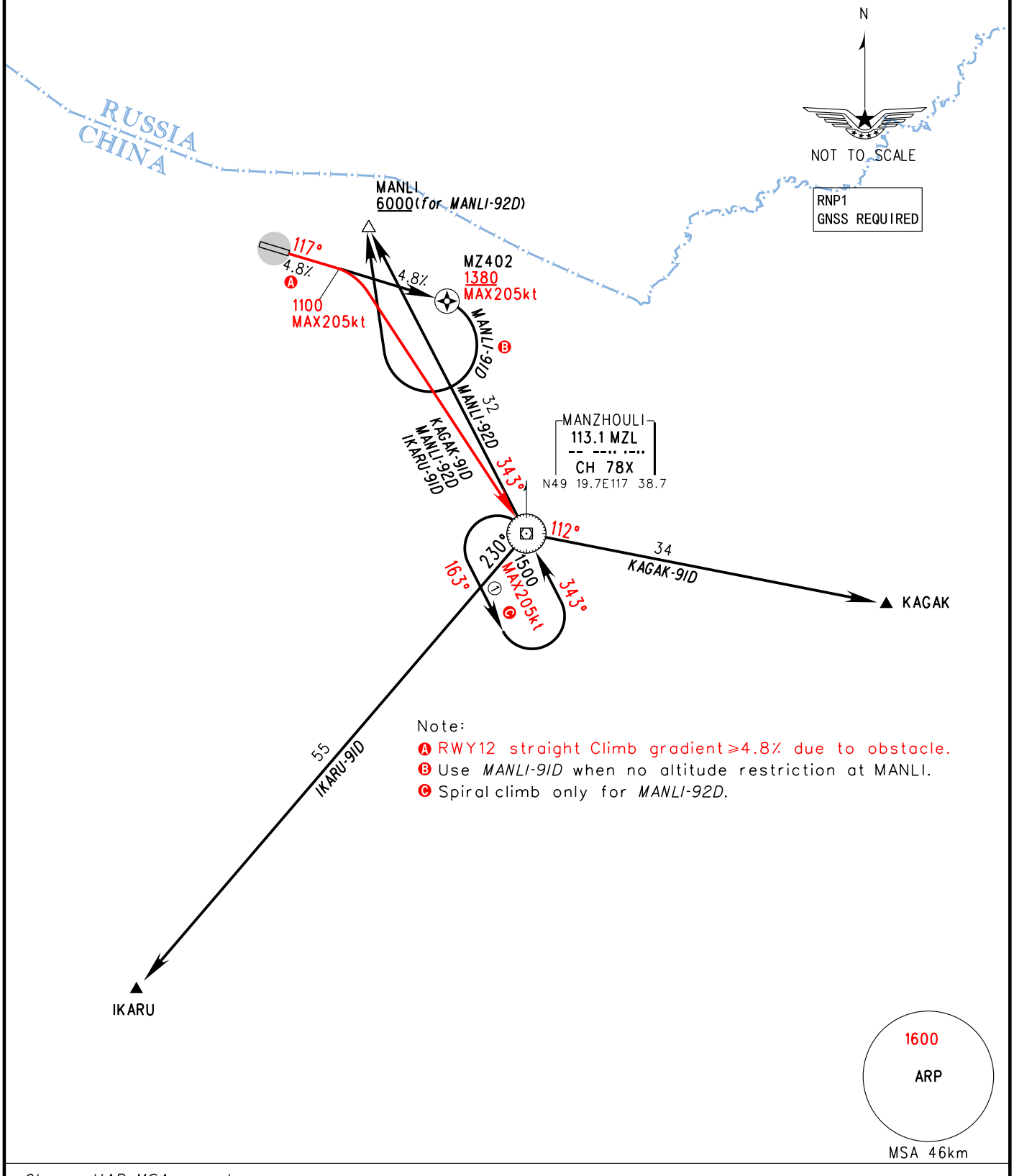
TWR 118.1(130.0)

ZBMZ MANZHOULI/Xijiao

RNP RWY12

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: VAR, MSA, procedure.

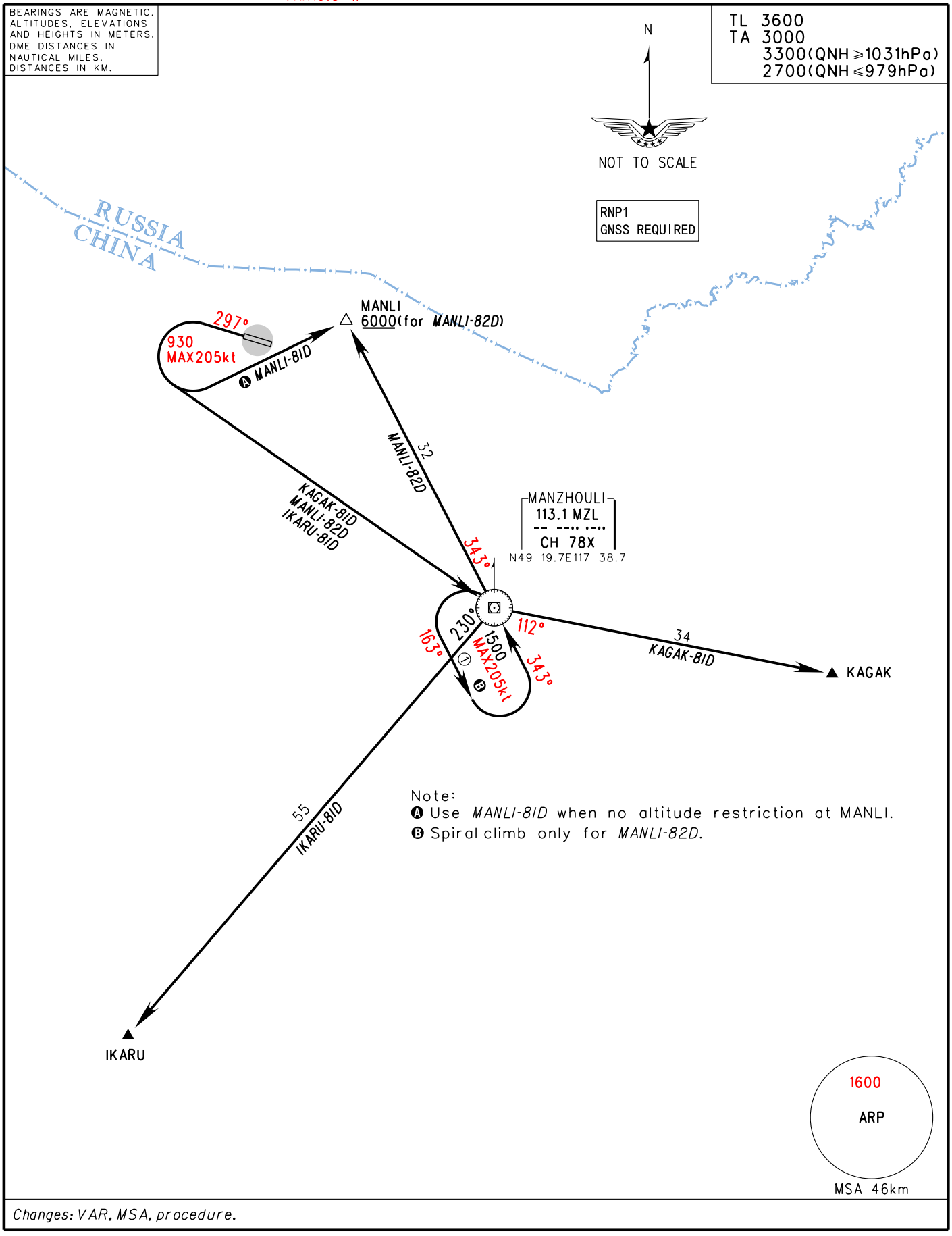
STANDARD DEPARTURE CHART-INSTRUMENT

VAR10.3° W

TWR 118.1(130.0)

ZBMZ MANZHOULI/Xijiao

RNP RWY30



Changes: VAR, MSA, procedure.

STANDARD ARRIVAL CHART-INSTRUMENT

VAR10.3° W

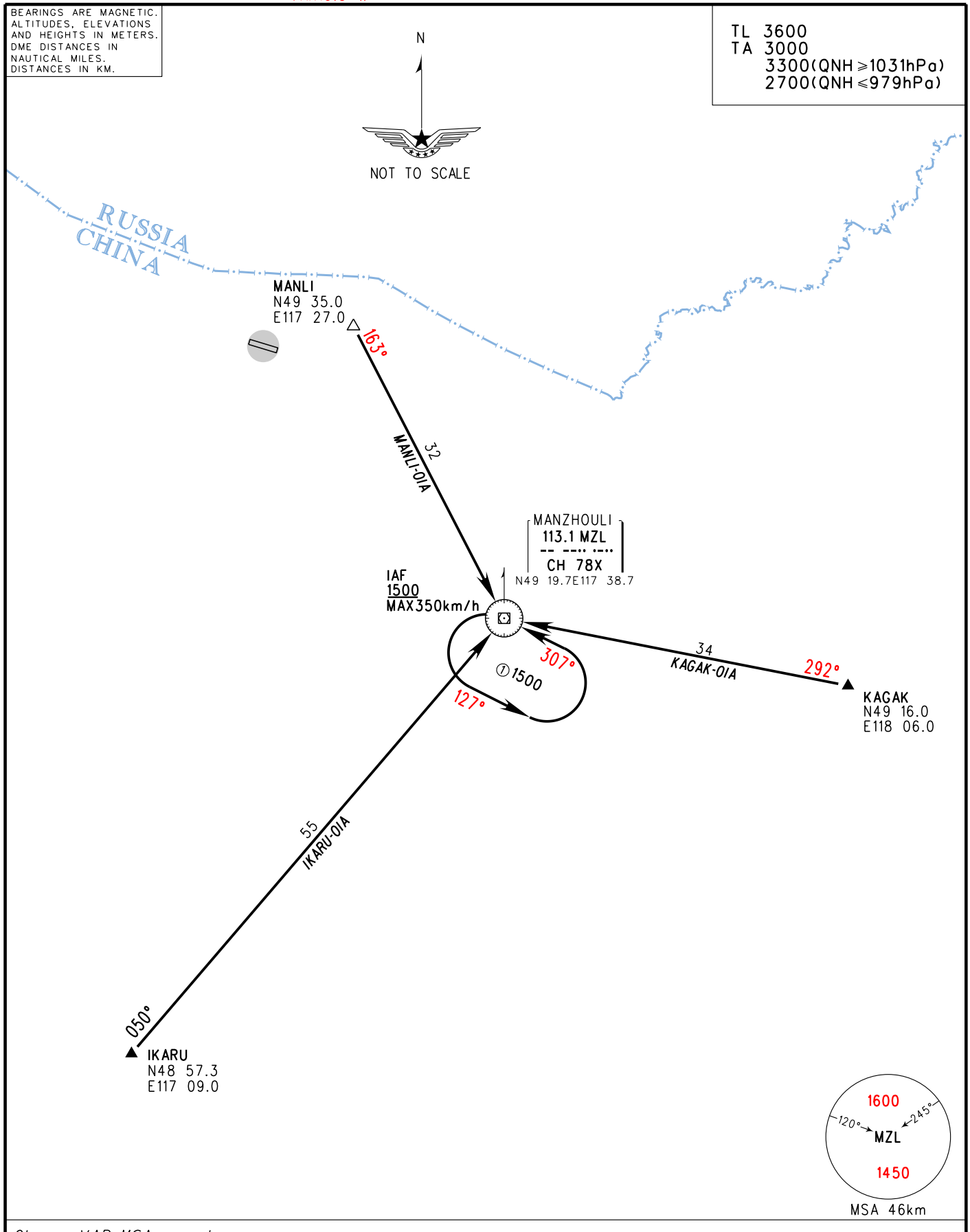
TWR 118.1(130.0)

ZBMZ MANZHOULI/Xijiao

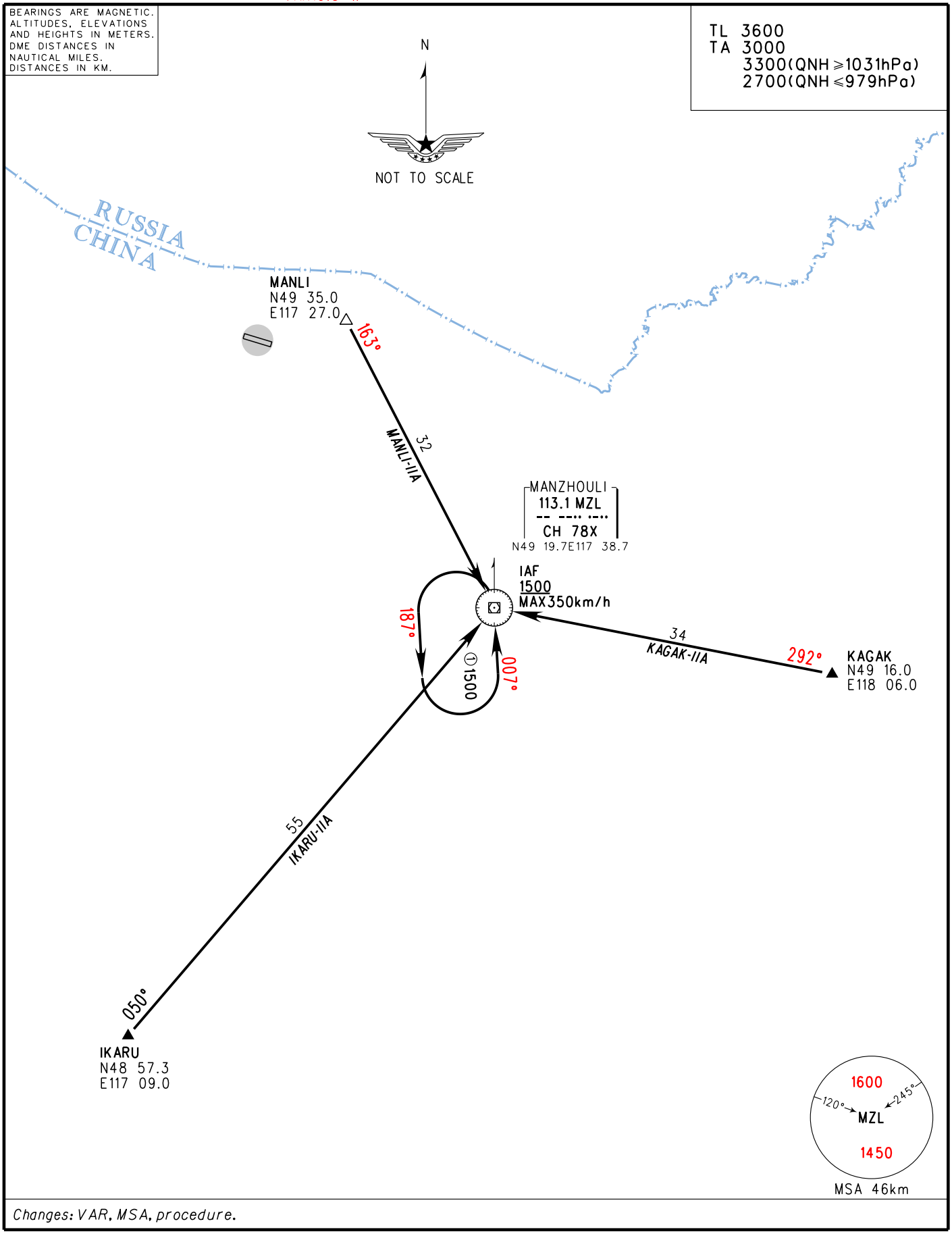
RWY12

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: VAR, MSA, procedure.



Changes: VAR, MSA, procedure.

STANDARD ARRIVAL CHART-INSTRUMENT

VAR10.3° W

TWR 118.1(130.0)

ZBMZ MANZHOULI/Xijiao

RNP RWY12

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

RNP1
GNSS REQUIRED

RUSSIA
CHINA

MANLI

IAF
MZ306
1500
MAX180kt

207°
1500
MAX180kt
027°

25
MANLI-91A
IKARU-91A
KAGAK-91A

297°

MZ308

14
MANLI-91A
207°

297°
1800
MAX180kt
117°

23
IKARU-91A
KAGAK-91A
319°

Note: Ⓐ Only use for MANLI-91A

MANZHOULI
113.1 MZL
-- ---· ·--·
CH 78X
N49 19.7E117 38.7

34
KAGAK-91A
292°

KAGAK

55
IKARU-91A
050°

IKARU

1600
ARP

MSA 46km

Changes: VAR, MSA, procedure.

STANDARD ARRIVAL CHART-INSTRUMENT

VAR10.3° W

TWR 118.1(130.0)

ZBMZ MANZHOULI/Xijiao

RNP RWY30

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

RNP1
GNSS REQUIRED

RUSSIA
CHINA

MANLI

207°
14
MANLI-81A

117°
1800
MAX180kt
297°

MZ308

15
117°

IAF
MZ406
1500
MAX180kt

207°
11
027°
349°

1500
MAX180kt

34
KAGAK-81A
292°

KAGAK

MANZHOULI
113.1 MZL
-- ---· ·---
CH 78X
N49 19.7E117 38.7

55
IKARU-81A
050°

IKARU

1600
ARP

MSA 46km

Changes: VAR, MSA, procedure.

WAYPOINT ID	COORDINATES	WAYPOINT ID	COORDINATES	WAYPOINT ID	COORDINATES
MZ304	N49° 36'46.5"E117° 05'59.1"				
MZ306	N49° 31'34.6"E117° 03'34.1"				
MZ308	N49° 27'36.9"E117° 23'32.1"				
MZ402	N49° 31'18.8"E117° 33'03.4"				
MZ404	N49° 30'19.6"E117° 37'53.6"				
MZ406	N49° 25'12.9"E117° 35'27.9"				
MZL	N49° 19.7'E117° 38.7'				
IKARU	N48° 57'19"E117° 08'59"				
KAGAK	N49° 16'00"E118° 06'00"				
MANLI	N49° 35'00"E117° 27'00"				

Changes: New chart.

Path Terminator	Waypoint ID	Fly over	Magnetic Course(°)	Turn Direction	Altitude (m)	IAS (kt)	VPA/TCH	Navigation Specification
RWY12 SID MANLI-91D								
CF	MZ402	Y	117		1380	MAX205		RNP1
DF	MANLI			R				RNP1
RWY12 SID MANLI-92D								
CA			117		1100	MAX205		RNP1
DF	MZL			R				RNP1
TF	MANLI				6000			RNP1
RWY12 SID KAGAK-91D								
CA			117		1100	MAX205		RNP1
DF	MZL			R				RNP1
TF	KAGAK							RNP1
RWY12 SID IKARU-91D								
CA			117		1100	MAX205		RNP1
DF	MZL			R				RNP1
TF	IKARU							RNP1
RWY30 SID MANLI-81D								
CA			297		930	MAX205		RNP1
DF	MANLI			L				RNP1
RWY30 SID MANLI-82D								
CA			297		930	MAX205		RNP1
DF	MZL			L				RNP1
TF	MANLI				6000			RNP1
RWY30 SID KAGAK-81D								
CA			297		930	MAX205		RNP1
DF	MZL			L				RNP1
TF	KAGAK							RNP1
RWY30 SID IKARU-81D								
CA			297		930	MAX205		RNP1
DF	MZL			L				RNP1
TF	IKARU							RNP1
RWY12/30 SID Holding(Outbound Time:1min)								
HM	MZL	Y	343	L	1500	MAX205		RNP1
RWY12 STAR MANLI-91A								
IF	MANLI							RNP1
TF	MZ308							RNP1
TF	MZ306				1500	MAX180		RNP1
RWY12 STAR KAGAK-91A								
IF	KAGAK							RNP1
TF	MZL							RNP1

Changes: New chart.

Path Terminator	Waypoint ID	Fly over	Magnetic Course(°)	Turn Direction	Altitude (m)	IAS (kt)	VPA/TCH	Navigation Specification
TF	MZ308							RNP1
TF	MZ306				1500	MAX180		RNP1
RWY12 STAR IKARU-91A								
IF	IKARU							RNP1
TF	MZL							RNP1
TF	MZ308							RNP1
TF	MZ306				1500	MAX180		RNP1
RWY12 Holding(Outbound Time:1min)								
HM	MZ308	Y	297	L	1800	MAX180		RNP1
HM	MZ306	Y	027	L	1500	MAX180		RNP1
RWY30 STAR MANLI-81A								
IF	MANLI							RNP1
TF	MZ308							RNP1
TF	MZ406				1500	MAX180		RNP1
RWY30 STAR KAGAK-81A								
IF	KAGAK							RNP1
TF	MZL							RNP1
TF	MZ406				1500	MAX180		RNP1
RWY30 STAR IKARU-81A								
IF	IKARU							RNP1
TF	MZL							RNP1
TF	MZ406				1500	MAX180		RNP1
RWY30 Holding(Outbound Time:1min)								
HM	MZ308	Y	117	R	1800	MAX180		RNP1
HM	MZ406	Y	027	R	1500	MAX180		RNP1
RWY12 Approach Transition MZ306								
IF	MZ306				1500	MAX180		RNP1
TF	MZ304				1200	MAX160		RNP1
RWY30 Approach Transition MZ406								
IF	MZ406				1500	MAX180		RNP1
TF	MZ404				1500	MAX160		RNP1

Changes: New chart.