ZYMD AD 2.1 机场地名代码和名称 Aerodrome location indicator and name

ZYMD-牡丹江/海浪 MUDANJIANG/Hailang

ZYMD 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	N44° 31.4' E129° 34.2' Center of RWY
2	方向、距离 Direction and distance from city	215° GEO, 7km from the railway station
3	标高 / 参考气温 Elevation/Reference temperature	269.6m/ 27.9° C (JUL)
4	机场标高位置 / 高程异常 AD ELEV PSN/ geoid undulation	-
5	磁差 / 年变率 MAG VAR/Annual change	10° W/ -
6	机场管理部门、地址、电话、传真、AFS、电子邮箱、网址 AD administration, address, telephone, telefax, AFS, E-mail, website	Mudanjiang Hailang Airport Authority Hailang Airport, Mudanjiang 157021, Heilongjiang province, China TEL: 86-453-6882866 FAX: 86-453-6481022 AFS: ZYMDZPZX
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/-
9	备注 Remarks	Nil

ZYMD AD 2.3 工作时间 Operational hours

1	机场当局 (机场开放时间) AD Administration (AD operational hours)	HS or O/R
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	航行情报服务讲解室 AIS Briefing Office	HS or O/R
5	空中交通服务报告室 ATS Reporting Office (ARO)	HS or O/R
6	气象讲解室 MET Briefing Office	HS or O/R
7	空中交通服务 ATS	HS or O/R
8	加油 Fuelling	HS or O/R
9	地勤服务 Handling	HS or O/R

10	保安 Security	HS or O/R
11	除冰 De-icing	HS or O/R
12	备注 Remarks	Nil

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

1	货物装卸设施 Cargo-handling facilities	Trucks up to 10 tonnes
2	燃油 / 滑油牌号 Fuel/oil types	Nr.3 jet fuel --
3	加油设施 / 能力 Fuelling facilities/capacity	Refueling truck (6000 litres): 10 litres/ sec
4	除冰设施 De-icing facilities	de-icer
5	过站航空器机库 Hangar space for visiting aircraft	Nil
6	过站航空器的维修设施 Repair facilities for visiting aircraft	Ground service available on request.
7	备注 Remarks	Nil

ZYMD AD 2.5 旅客设施 Passenger facilities

1	宾馆 Hotels	In the city
2	餐馆 Restaurants	At AD and in the city
3	交通工具 Transportation	Passenger's coaches, taxis
4	医疗设施 Medical facilities	First aid and 1 ambulance at AD, hospitals in the city
5	银行和邮局 Bank and Post Office	At AD
6	旅行社 Tourist Office	In the city TEL: 86-453-6916775
7	备注 Remarks	Nil

ZYMD 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	fire tenders, ambulance, command car
3	搬移受损航空器的能力 Capability for removal of disabled aircraft	Nil
4	备注 Remarks	Nil

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

1	扫雪设备类型 Types of clearing equipment	All seasons snow blowers, snow scraper
2	扫雪顺序 Clearance priorities	RWY, TWY, Apron
3	备注 Remarks	Nil

ZYMD 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	Surface:	Cement concrete
		Strength:	PCN 44/R/B/W/T
2	滑行道宽度、道面和强度 Taxiway width, surface and strength	Width:	18 m: A, D 23 m: F
		Surface:	Cement concrete
		Strength:	PCN 60/R/B/W/T: A, D PCN 44/R/B/W/T: F
3	高度表校正点的位置及其标高 ACL location and elevation	Nil	
4	VOR/INS 校正点 VOR/INS checkpoints	Nil	
5	备注 Remarks	Nil	

ZYMD 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 / 停放位置引导系统的使用 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, TWY and apron; RWYguard lights; Guide lines at TWY and apron; Aircraft stand identification sign board for all stands; Marshaller is available at all stands.	
2	跑道和滑行道标志及灯光 RWY and TWY marking and LGT	RWY markings	RWY designations, THR , TDZ, center circle, center line, edge line, aiming point
		RWY lights	Center line, edge line, THR, RWY end
		TWY markings	Center line, edge line, taxiing holding position
		TWY lights	Edge line, RWY guard lights
3	停止排灯 Stop bars	Nil	
4	备注 Remarks	Blue apron edge line lights	

ZYMD AD 2.10 机场障碍物 Aerodrome obstacles

Obstacles within a circle with a radius of 15km centered on RWY center					
序号 Serial Nr.	**障碍物类型 (* 代表有灯光) Obstacle type (*Lighted)**	**磁方位 BRG (MAG)(degree)**	**距离 DIST(m)**	**场压高 AAL Height(m)**	**影响的飞行程序及起飞航径区 Flight procedure/take-off flight path area affected**
1	Chimney	007	2100	(33.0)	
2	MT	024	14735	(248.4)	RWY22/NDB initial approach RWY22/VOR/DME final approach RWY22/NDB/DME final approach RWY22/NDB final approach
3	Anenna	029	1029	(10.5)	RWY22/ILS/DME final approach
4	MT	029	14956	(192.4)	RWY22/GP INOP final approach
5	Trees	030	1392	(4.5)	RWY04/departure
6	Trees	030	1377	(1.7)	RWY04/departure RWY22/approach
7	Trees	030	1392	(1.5)	RWY22/approach
8	BLDG	032	6551	(89.4)	RWY04/take-off

Obstacles within a circle with a radius of 15km centered on RWY center					
序号 Serial Nr.	**障碍物类型 (* 代表有灯光) Obstacle type (*Lighted)**	**磁方位 BRG (MAG)(degree)**	**距离 DIST(m)**	**场压高 AAL Height(m)**	**影响的飞行程序及起飞航径区 Flight procedure/take-off flight path area affected**
9	Tree	032	1855	(1.7)	RWY04/take-off
10	BLDG	032	6519	(82.6)	RWY04/take-off
11	TWR	040	7230	(105.4)	RWY22/GP INOP final approach RWY22/VOR/DME final approach RWY22/NDB/DME final approach RWY04/take-off
12	Tree	042	2019	(4.4)	RWY04/take-off
13	BLDG	043	6343	(60.2)	RWY04/take-off
14	Advertise Board	201	2390	(29.2)	
15	MT	209	6784	(73.1)	RWY22/take-off
16	Antenna	214	1704	(7.5)	RWY22/take-off
17	Tree	214	1712	(7.8)	RWY22/take-off
18	Pole	216	2205	(17.2)	RWY22/take-off
19	TWR	217	12153	(129.4)	
20	Pole	218	1531	(5.3)	RWY22/take-off
21	Chimney	221	1513	(4.0)	RWY22/take-off
22	Lighing rod	223	3289	(31.1)	RWY22/take-off
23	MT	239	5363	(240.6)	RWY04/VOR/DME final approach
24	MT	246	4377	(209.7)	circling
25	TWR	247	6273	(298.8)	RWY04/NDB/DME final approach circling
Remarks:					

Obstacles between two circles with the radius of 15km and 50km centered on RWY center					
序号 Serial Nr.	障碍物类型 (* 代表有灯光) Obstacle type (*Lighted)	磁方位 BRG (MAG)(degree)	距离 DIST(m)	海拔高度 Elevation(m)	影响的飞行程序及起飞航径区 Flight procedure/take-off flight path area affected
1	MT	004	19292	678	RWY22/holding

Obstacles between two circles with the radius of 15km and 50km centered on RWY center					
序号 Serial Nr.	障碍物类型 (* 代表有灯光) Obstacle type (*Lighted)	磁方位 BRG (MAG)(degree)	距离 DIST(m)	海拔高度 Elevation(m)	影响的飞行程序及起飞航径区 Flight procedure/take-off flight path area affected
2	MT	009	24149	722	RWY22/ILS/DME initial approach RWY22/VOR/DME initial approach RWY22/NDB/DME initial approach
3	MT	015	23992	699	RWY22/ILS/DME intermediate approach RWY22/VOR/DME intermediate approach RWY22/NDB/DME intermediate approach
4	MT	027	16334	508	RWY22/ILS/DME intermediate approach
5	MT	029	20511	486	
6	MT	059	24881	626	RWY22/ILS/DME initial approach RWY22/NDB initial approach
7	Lighting nod	138	33052	1144	Sector RWY04/holding
8	MT	161	16425	574	RWY04/holding
9	MT	164	63218	1010	
10	MT	227	24441	482.2	RWY04/VOR/DME intermediate approach RWY04/NDB/DME intermediate approach
11	MT	248	23769	664.1	RWY04/holding RWY22/holding
12	MT	290	72379	1304	
13	MT	328	61189	1105.4	
14	MT	333	48438	934.8	sector
Remark: Other obstacles refer to AD OBST Chart.					

ZYMD AD 2.11 提供的气象信息、机场观测与报告

Meteorological information provided & aerodrome observations and reports

1	相关气象室的名称 Associated MET Office	Mudanjiang Aerodrome MET Office
2	气象服务时间、服务时间以外的责任气象室 Hours of service, MET Office outside hours	HO --
3	负责编发 TAF 的办公室 ; 有效期 Office responsible for TAF preparation,Periods of validity	Mudanjiang Aerodrome MET Office 9 HR
4	着陆预报类型、发布间隔 Type of landing forecast, Interval of issuance	Nil
5	所提供的讲解 / 咨询服务 Briefing/consultation provided	P
6	飞行文件及其使用语言 Flight documentation, Languages used	Chart, international MET codes, abbreviated plain language text Ch, En
7	讲解 / 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	Synoptic charts, significant weather charts, upper W/T charts, satellite and radar material, AWOS real-time data
8	提供信息的辅助设备 Supplementary equipment available for providing information	FAX
9	接收气象信息的空中交通服务单位 ATS units provided with information	TWR
10	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
11	气象报告类型及所包含的补充资料 Type of MET Report & supplementary information included	METAR, SPECI, TEND
12	观测系统及位置 Observation System & Site(s)	RVR EQPT: A: 128m E of RCL, 310m inward THR04; B: 128m E of RCL, 1340m inward THR22; C: 128m E of RCL, 385m inward THR22 SFC wind sensors: 128m E of RCL, 1300m inward THR22 Ceilometer: RWY04: 840m outward THR04; RWY22: 970m outward THR22
13	气象观测系统的工作时间 Hours of operation for meteorological observation system	H24

14	气候资料 Climatological information	Climatological tables AVBL
15	其他信息 Additional information	Nil

ZYMD AD 2.12 跑道物理特征 Runway physical characteristics

跑道号码 Designations RWY NR	真方位和磁方位 TRUE & MAG BRG	跑道长宽 Dimensions of RWY (m)	跑道强度 (PCN), 跑道道面 / 停止道道面 RWY strength (PCN), RWY surface/SWY surface	着陆入口坐标及高程异常 THR coordinates and geoid undulation	跑道着陆入口标高, 精密进近跑道接地地带最高标高 THR elevation and highest elevation of TDZ of precision APP RWY
1	2	3	4	5	6
04	026° GEO 036° MAG	2600 × 45	58/F/B/W/T Asphalt	Nil	THR 269.6m --
22	206° GEO 216° MAG	2600 × 45	58/F/B/W/T Asphalt	Nil	THR 264.5m --
跑道 - 停止道坡度 Slope of RWY-SWY	停止道长宽 SWY dimensions (m)	净空道长宽 CWY dimensions (m)	升降带长宽 Strip dimensions (m)	无障碍物地带 OFZ	跑道端安全区长宽 RWY end safety area dimensions (m)
7	8	9	10	11	12
See AOC	Nil	Nil	2720 × 210	Nil	Nil
See AOC	Nil	Nil	2720 × 210	Nil	Nil
Remarks:					

ZYMD AD 2.13 公布距离 Declared distances

跑道代号 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
04	2600	2600	2600	2600	Nil
22	2600	2600	2600	2600	Nil
Remarks:					

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

跑道代号 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 (跑道入口最低眼高), 精密进近航道指示器 VASIS (MEHT) PAPI	接地地带灯长度 TDZ LGT LEN	跑道中心线灯长度、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
04	SALS 420m LIL	Green --	PAPI Left/3°	Nil	2600m spacing 30m White, LIH	2600m spacing 60m White, LIH	Red	Nil
22	CAT I 900m LIH	Green --	PAPI Right/3°	Nil	2600m spacing 30m White, LIH	2600m spacing 60m White, LIH	Red	Nil
Remarks:								

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

1	机场灯标 / 识别灯标位置、特性和工作时间 ABN/IBN location, characteristics and hours of operation	Nil
2	着陆方向指示器位置和灯光 ; 风速表位置和灯光 LDI location and LGT, Anemometer location and LGT	Nil
3	滑行道边灯和中心线灯光 TWY edge and center line lighting	All TWYs
4	备份电源 / 转换时间 Secondary power supply/switch-over time	Secondary power supply available/ 3min
5	备注 Remarks	Nil

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

1	TLOF 坐标或 FATO 入口坐标及高程异常 Coordinates TLOF or THR of FATO Geoid undulation	Nil
2	TLOF 和 / 或 FATO 标高 (m) TLOF and/or FATO elevation (m)	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

ZYMD AD 2.17 空中交通服务空域 ATS airspace

名称 Designation	横向界限 Lateral limits	垂直界限 Vertical limits	备注 Remarks
Mudanjiang tower control area	By ATC	By ATC	
Altimeter setting region and TL/TH	By ATC	TL 3600m TH (3000)m	

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

服务名称 Service Designation	呼号 Call sign	频率 Frequency (MHz)	工作时间 Hours of operation	备注 Remarks
1	2	3	4	5
TWR	Mudanjiang Tower	130.0 (118.6)	HO	Nil

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

设施名称和类型 Name and type of aid	识别 ID	频率 Frequency	发射天线位置、坐标 Antenna site coordinates	DME 发射天线标高 Elevation of DME transmitting antenna	备注 Remarks
1	2	3	4	5	6
Mudanjiang VOR/DME	MDJ	117.1MHz CH 118X	N44° 30.9′ E129° 33.8′	278m	
LM 22	X	251kMz	N44° 32.5′ E129° 34.8′		036° MAG/ 950m FM THR RWY 22
LOC 22 ILS CAT I	IQM	108.9MHz	216° MAG/ 400m FM end RWY 22		022° leftside and 025° rightside of front course U/S
GP 22		329.3MHz	120m E of RCL,300m FM THR RWY 22		Angle 3° RDH 15.8m
DME 22	IQM	CH 26X (108.9MHz)	129m E of RCL,300m FM THR RWY 22	263m	Co-located with GP 22
Remarks:					

ZYMD AD 2.20 本场飞行规定

1. 机场使用规定

1.1 本场仅供100吨（含）以下机型使用;

1.2 所有技术试飞须事先申请，并在得到空中交通管制部门批准后方可进行。

1.3 本场最大机型限制为B737-800。

2. 跑道和滑行道的使用

无

ZYMD AD 2.20 Local traffic regulations

1. Airport operations regulations

1.1 Local AD is only available for aircraft not more than 100 tonnes;

1.2 Each and every technical test flight shall be filed in advance and conducted only after clearance has been obtained from ATC.

1.3 Maximum aircraft to be available: B737-800 and equivalent.

2. Use of runways and taxiways

Nil

3. 机坪和机位的使用

发动机试车，需经塔台许可，并在指定的地点进行。严禁在客机坪试大车。

3. Use of aprons and parking stands

Engine run-ups are subject to Tower Control clearance, and shall be carried out at a designated location. Fast engine run-ups on apron are strictly forbidden.

4. 进、离场管制规定

无

4. Air traffic control regulations

Nil

5. 机场的 II/III 类运行

无

5. CAT II/III operations at AD

Nil

6. 除冰规则

无

6. Rules for deicing

Nil

7. 平行跑道同时仪表运行

无

7. Simultaneous operations on parallel runways

Nil

8. 警告

无

8. Warning

Nil

9. 直升机飞行限制，直升机停靠区

无

9. Helicopter operation restrictions and helicopter parking/docking area

Nil

ZYMD AD 2.21 噪音限制规定及减噪程序

ZYMD AD 2.21 Noise restrictions and Noise abatement procedures

无

Nil

ZYMD AD 2.22 飞行程序

ZYMD AD 2.22 Flight procedures

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。

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

起落航线在跑道两侧均可，西侧高 600 米，东侧高500米。

2. Traffic circuits

Traffic circuits shall be made to both sides of RWY, at the height of 600m on west side, and 500m on east side.

3. 仪表飞行程序

严格按照航图中公布的进、离场程序飞行。如果需要，航空器可在空中交通管制部门指定的航路、导航台或定位点上空等待或做机动飞行。

3. IFR flight procedures

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

无

5. Radio communication failure procedures

Nil

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. 目视参考点

无

8. Visual reference point

Nil

9. 其它规定

无

9. Other regulations

Nil

10. 区域导航飞行程序相关数据

10. Data for RNAV flight procedures

Waypoint Coordinates

Waypoint ID	COORDINATES	Waypoint ID	COORDINATES
MD402	N441907 E1290256	MD653	N441816 E1292508
MD551	N443829 E1292451	UGABI	N4407.6 E12833.0

Navigation database coding table

Path Terminator	Waypoint ID	Fly over	Magnetic Course (°)	Turn Direction	Altitude (m)	IAS (kt)	VPA/ TCH	Navigation Specification
RWY04 Departure UGABI-09D								
CA	MD600		036		770	MAX210		RNP1
DF	MD551			L	↑ 1470			RNP1
TF	MD402							RNP1
TF	UGABI							RNP1
RWY22 Departure UGABI-19D								
CF	MD653		216					RNP1
TF	MD402							RNP1
TF	UGABI							RNP1

ZYMD AD 2.23 其它资料

机场附近全年有鸟类活动，夏秋季节较多。每天在日出后和日落前 1 至 2 小时活动频繁，高约为 600 米以下。机场管制部门会尽可能将鸟类活动及估计的离地高通知驾驶员。建议驾驶员在上述期间内，在机场塔台管制区内起飞爬升、进近着陆过程中打开着陆灯。机场当局采取了驱赶措施，以减少鸟群活动。

ZYMD AD 2.23 Other information

Activities of bird flocks are found all the year round in the vicinity of the aerodrome especially during summer and autumn. Daily peak hours of their activities are one to two hours after sunrise and before sunset with flying heights at about 600m or below. Aerodrome Control Unit will, as far as practicable, inform pilots of bird activities and their estimated heights. During the above periods pilots are advised to switch on landing lights during takeoff, climb and approach-to-land within the Tower Control Area. Aerodrome Authority resorts to dispersal methods to reduce bird activities.