

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

ZYCC-长春/龙嘉 CHANGCHUN/Longjia

**ZYCC 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	N43°59.9' E125°41.3' On RCL, 1400m from THR of RWY24
2	方向、距离 Direction and distance from city	067°GEO, 32km from Renmin Square
3	标高/参考气温 Elevation / Reference temperature	215.3m/27.4 °C(JUL)
4	机场标高位置/大地水准面波幅 AD ELEV PSN / geoid undulation	-/-
5	磁差/年变率 MAG VAR/ Annual change	9°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	Jilin Province Civil Aviation Airport Group Co. Nr. 3500 airport road, Changchun, Jilin province 130039, China Post code:130039 TEL:86-431-88797029 FAX:86-431-88797096 AFS:ZYCCYDYX Email:jldaws@cahs.com.cn
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/4E
9	备注 Remarks	Nil

**ZYCC 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	HS or O/R

	Health and sanitation	
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

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

1	货物装卸设施 Cargo-handling facilities	Platform lift, baggage transporter, trailer, cargo bucket, fork lift, container tractor
2	燃油/滑油牌号 Fuel/oil types	Nr.3 jet fuel --
3	加油设施/能力 Fuelling facilities/capacity	hydrant dispensers: 27 litres/sec tank refuelers: 20 litres/sec
4	除冰设施 De-icing facilities	9 de-icers
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	Nil

7	备注 Remarks	Ground power unit, ground air supply unit,
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**ZYCC AD 2.5 旅客设施 Passenger facilities**

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

**ZYCC 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 8
2	援救设备 Rescue equipment	Fire fighting facilities: command car, rapid intervention vehicle, primary foam tender, heavy-duty water tank truck, heavy-duty foam tender, water tank truck, demolition rescue truck, illumination truck, medicament reinforcement car, aerial ladder truck
3	搬移受损航空器的能力 Capability for removal of disabled aircraft	MTOW up to B747 Rescue equipment: uplift air cushion, mobile surface operation devices, towing tractor, rubber pad, towing rack, etc.
4	备注 Remarks	Nil

**ZYCC AD 2.7 可用季节- 扫雪 Seasonal availability-clearing**

1	可用季节及扫雪设备类型 Types of clearing equipment	All seasons Snow blower, snow plough, snow slinger, ice spreading car
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2	扫雪顺序 Clearance priorities	RWY, TWY, apron
3	备注 Remarks	Nil

**ZYCC 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 82/R/B/W/T (de-icing apron D01-D03) PCN 80/R/B/W/T (stands Nr.211-221) PCN 79/R/B/W/T (stands Nr.A08-A19, 101-109, 210) PCN 60/R/B/W/T (stands Nr.222-232, B01-B05) PCN 56/R/B/W/T (stands Nr.A20-A28)
2	滑行道宽度、道面和强度 Taxiway width, surface and strength	Width:	38m: B 34m: G 28.5m: A (BTN RWY & Main A), A1, C, F 23m: Main A, H, H1-H4, L1-L4 18m: D, E
		Surface:	Asphalt concrete Cement concrete
		Strength:	PCN 88/F/B/W/T: B, D, E PCN 87/R/B/W/T: A (BTN RWY & Main A) PCN 85/R/B/W/T: G PCN 84/R/B/W/T: L2, L4 PCN 83/R/B/W/T: F, L3 PCN 82/R/B/W/T: A1 (BTN RWY & Main A) PCN 80/R/B/W/T: Main A, A1 (BTN A & H), H, H1-H4, L1 PCN 78/R/B/W/T: C
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	INS checkpoints: at stands	
5	备注 Remarks	Nil	

## ZYCC 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, TWY and apron. Guide lines at all TWY and apron	
2	跑道和滑行道标志及灯光 RWY and TWY marking and LGT	RWY markings	RWY designation, THR, TDZ, center line, edge line, aiming point
		RWY lights	Center line, edge line, THR, RWY end
		TWY markings	Center line, edge line, taxi holding positions, enhanced center line, no entry
		TWY lights	Center line lights, edge line lights, RWY guard lights, rapid exit taxiway indicator lights, No-entry bar, intermediate holding position lights, de-icing/anti-icing facility exit lights
3	停止排灯 Stop bars	Nil	
4	备注 Remarks	Nil	

## ZYCC AD 2.10 机场障碍物 Aerodrome obstacles

Obstacles within a circle with a radius of 15km centered on the center of RWY 06/24						
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	备注 Remarks
1	Antenna	053	1322	212	RWY24 ILS/DME approach(4%)	
2	Trees	070	1189	218	RWY24 NDB/DME final approach; RWY24 ILS/DME GP INOP	
3	Control TWR	163	579	264	RWY24 ILS/DME approach(2.5%)	
4	MT	170	8237	353	Circling CAT C	

Obstacles within a circle with a radius of 15km centered on the center of RWY 06/24						
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	备注 Remarks
5	Chimney	179	815	266		
6	MT	179	13952	426		
7	MT	199	9457	380	Circling CAT D	
8	MT	215	13712	388	RWY06 ILS/DME initial approach; RWY06 ILS/DME intermediate approach; RWY06 NDB/DME initial approach	
9	MT	216	13700	370	RWY24 departure; RWY24 ILS/DME missed approach	
10	TWR	222	6149	299	Circling CAT B	
11	TWR	231	7396	269	RWY06 ILS/DME GP INOP	
12	Trees	232	2401	240		
13	Trees	234	2331	239	RWY24 departure; RWY24 take off	
14	Trees	234	2568	244	RWY24 take off	
15	Trees	235	1952	224	RWY24 take off	
16	Trees	237	1971	226	RWY24 take off	
17	Trees	238	2629	245	RWY06 ILS/DME approach; RWY24 take off	
18	MT	241	11000	322	RWY06 NDB/DME final approach	
19	*BLDG	246	3480	250.9		
20	Lightning Rod	247	8093	303	RWY06 NDB/DME final approach	

Obstacles within a circle with a radius of 15km centered on the center of RWY 06/24						
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	备注 Remarks
21	MT	251	9500	284	RWY24 departure	
22	MT	256	3200	244	RWY06 approach	
23	TWR	294	3653	270	Circling CAT A	
Others:						

Obstacles between two circles with the radius of 15km and 50km centered on the center of RWY 06/24						
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	备注 Remarks
1	MT	072	27000	385	RWY24 NDB/DME Intermediate approach	
2	MT	079	33950	557		
3	MT	080	36840	573		
4	MT	085	19240	451		
5	MT	090	17700	437	RWY06 departure; RWY06 ILS/DME missed approach	
6	MT	094	16860	429		
7	MT	117	16910	497		
8	MT	126	61400	798	sector	
9	MT	227	27400	379	RWY06 NDB/DME intermediate approach; RWY06 ILS/DME intermediate approach	
10	Chimney	251	26900	410		

Obstacles between two circles with the radius of 15km and 50km centered on the center of RWY 06/24						
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	备注 Remarks
11	TV TWR	256	34010	448		
Others:						

## ZYCC AD 2.11 提供的气象信息、机场观测与报告

## Meteorological information provided &amp; aerodrome observations and reports

1	相关气象台的名称 Associated MET Office	Changchun Longjia Aerodrome 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 Office responsible for TAF; preparation, Periods of validity; Interval of issuance	Changchun Longjia Aerodrome MET Office; 9 HR, 24HR
4	趋势预报发布间隔 Type of landing forecast, Interval of issuance	Trend 1 HR
5	所提供的讲解/咨询服务 Briefing/consultation provided	P, T
6	飞行文件及其使用语言 Flight documentation, Languages used	Chart, table or 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	提供气象情报的空中交通服务单位 ATS units provided with information	TWR, Changchun APP



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)	SFC wind sensors 24: 350m inward THR, 115m NW of RCL; MID: 1610m inward THR, 110m NW of RCL; 06: 350m inward THR, 115m NW of RCL. RVR EQPT A: 110m NW of RCL, 355m inward THR06; B: 110m NW OF RCL, 1590m inward THR24; C: 110m NW of RCL, 334m inward THR24. Ceilometer Ceilometer: 06/24: 30m NW of RCL, 1050m outward THR24; 990m outward THR06.
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

## ZYCC 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	跑道入口标高,精密进近 跑道接地带最高标高 THR elevation and highest elevation of TDZ of precision APP RWY
1	2	3	4	5	6
06	049 °GEO 058 °MAG	3200×45	81/R/B/W/T CONC/-	Nil	THR215.3m TDZ214.6m

24	229 °GEO 238 °MAG	3200×45	81/R/B/W/T CONC/-	Nil	THR196.8m TDZ197.5m
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)	无障碍物区 OFZ	跑道端安全区长宽 RWY end safety area dimensions(m)
7	8	9	10	11	12
-0.58%	Nil	Nil	3320×300	Nil	Nil
0.58%	Nil	Nil	3320×300	Nil	Nil
Remark:					
Remarks:					

## ZYCC 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
06	3200	3200	3200	3200	Nil
24	3200	3200	3200	3200	Nil
Remarks:					

## ZYCC 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
06	PALS CAT I* 900m VRB	GREEN --	PAPI LEFT/3 °	Nil	3200m** spacing 30m	3200m*** spacing 60m	RED	Nil

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
	LIH							
24	PALS CAT I* 900m VRB LIH	GREEN --	PAPI RIGHT/3 °	Nil	3200m** spacing 30m	3200m*** spacing 60m	RED	Nil
Remarks: *SFL **up to 2300m White VRB LIH, 2300-2900m Red/White VRB LIH, 2900-3200m Red VRB LIH ***up to 2600m White VRB LIH, 2600-3200 Yellow VRB LIH.								

## ZYCC AD 2.15 其他灯光,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	着陆方向标/风向标位置和灯光 LDI/WDI location and LGT	WDI: 06:115m S of RCL, 313m inward THR06, with light 24:110m S of RCL, 310m inward THR24, with light
3	滑行道边灯和中线灯 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/ 15 sec
5	备注 Remarks	Nil

## ZYCC 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	Nil
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	Coordinates TLOF or THR of FATO Geoid undulation	
2	TLOF 和/或 FATO 标高 (m/ft) TLOF and/or FATO elevation (m/ft)	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

## ZYCC AD 2.17 空中交通服务空域 ATS airspace

名称 Designation	水平范围 Lateral limits	垂直范围 Vertical limits	备注 Remarks
Longjia tower control area	A circuit: 2 arcs with radius 13km centered at centers of both RWY THR and 2 parallel lines of 13km from RCL	GND-600m	Nil
Fuel Dumping Area	N4450.0E12400.0 - N4450.0E12500.0 - N4420.0E12500.0 - N4420.0E12000.0 - N4450.0E12400.0	4500m and above	Nil

名称 Designation	水平范围 Lateral limits	垂直范围 Vertical limits	备注 Remarks
Altimeter setting region and TL/TA	N443103E1255611 - N440226E1263930 - N434131E1263716 - N432901E1255526 - N431548E1252936 - N434310E1245537 - N440404E1251331 - N443018E1252459 - N443103E1255611	TL 3600m TA 3000m 3300m(QNH ≥ 1031hPa) 2700m(QNH ≤ 979hPa)	Nil

## ZYCC 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
ATIS		126.25	HO	D-ATIS available
APP	Changchun Approach	119.45(127.9)APP01	H24	
APP	Changchun Approach	125.25(127.9)APP02	0400-1000	Contact ZYCCAPP01 when ZYCCAPP02 U/S.
TWR	LONGJIA TOWER	118.85(124.35)	HO	
GND	Changchun Ground	121.95	2300-1200	Contact TWR when GND out of service DCL available.
RAMP	Changchun Ramp	121.6RAMP01	HO	for east apron
RAMP	Changchun Ramp	121.675RAMP02	HO	for north apron

## ZYCC 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
Wanchang VOR/DME	LJB	115.9MHz CH106X	N43°46.4' E125°51.1'	199m	
LMM 06	D	216kHz	238 °MAG/980m FM THR RWY06		

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
LOC 06 ILS CAT I	IDD	109.3MHz	058 °MAG/250m FM end RWY 06		
GP 06		332.0MHz	120m N of RCL 340m FM THR06		Angle 3 °, RDH15m
DME 06	IDD	CH30X (109.3MHz)	243 °MAG/1257m FM RWY center	220m	Co-located with GP06
LMM 24	P	198kHz	058 °MAG/1040m FM THR RWY24		
LOC 24 ILS CAT I	IPP	110.1MHz	238 °MAG/ 250m FM end RWY 24		
GP 24		334.4MHz	120m N of RCL 284m FM THR 24		Angle 3 °,RDH 15m
DME 24	IPP	CH38X (110.1MHz)	053 °MAG/1313m FM RWY center	205m	Co-located with GP24

**ZYCC AD 2.20 本场飞行规定**

**ZYCC AD 2.20 Local traffic regulations**

**1. 机场使用规定**

**1.Airport operations regulations**

1.1 所有技术试飞需事先申请,并在得到空中交通管制部门批准后方可进行;

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

1.2 可使用最大机型: B747-400 同类及其以下机型。

1.2 Maximum aircraft to be available: B747-400 and equivalent.

**2. 跑道和滑行道的使用**

**2. Use of runways and taxiways**

2.1 可以通过塔台申请拖车服务;

2.1 Towing service is available via Tower Control;

## 2.2 滑行道滑行限制

## 2.2 Taxiing limits

滑行道/TWYs	航空器翼展限制/ Wing span limits for aircraft
TWY C, TWY F	≤54.94m
TWY D, TWY E	<36

## 3. 机坪和机位的使用

## 3. Use of aprons and parking stands

3.1 未经塔台同意，严禁航空器利用自身动力倒滑；

3.1 Push-back of aircraft on its own power is strictly forbidden without Tower Control clearance;

3.2 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；

3.2 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;

3.3 机位使用限制

3.3 Limits for aircraft parking on the following stands

停机位/Stands	航空器翼展限制/ Wing span limits for aircraft	机身长度限制/ Fuselage limits	滑入、滑出方式/ Enter or Exit
Nr.A15, 103, 212, 214, 216, 221	<65m	<71m	Taxi in/ Push-back
Nr.D03	<65m	<71m	Taxi in/ Taxi out
Nr.101, 102	<64m	<64m	Taxi in/ Push-back
Nr.A17-A19, 104, 105, 210, 213, 215	<52m	<50m	Taxi in/ Push-back

Nr.D02	<52m	<50m	Taxi in/ Taxi out
Nr.A08-A14, A16, A20-A27, 106-109, 211, 217-220, 222-232	<36m	<45m	Taxi in/ Push-back
Nr.B01-B05, D01	<36m	<45m	Taxi in/ Taxi out
Nr.A28	<24m		Taxi in/ Push-back

**4. 进、离场管制规定****4. Air traffic control regulations**

无

Nil

**5. 机场的 II/III 类运行****5. CAT II/III operations at AD**

无

Nil

**6. 除冰规则****6. Rules for deicing**

无

Nil

**7. 平行跑道同时仪表运行****7. Simultaneous operations on parallel runways**

无

Nil

**8. 警告****8. Warning**

无

Nil

**9. 直升机飞行限制, 直升机停靠区****9. Helicopter operation restrictions and helicopter parking / docking area**

无

Nil



**ZYCC AD 2.21 噪音限制规定及减噪程序****ZYCC AD 2.21 Noise restrictions and Noise abatement procedures**

无

Nil

**ZYCC AD 2.22 飞行程序****ZYCC AD 2.22 Flight procedures****1. 总则****1. General**

除经长春进近或塔台特殊许可外，在长春进近管制区和塔台管制区内的飞行，必须按照仪表飞行规则进行。

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

**2. 起落航线****2. Traffic circuits**

起落航线在跑道东南侧进行。经 ATC 许可，起落航线在跑道两侧均可，A、B、C、D 类航空器高度 750m 或以上。

Traffic circuits shall be made to the southeast of RWY and can be made to both sides of RWY by ATC clearance, at altitudes 750m or above for aircraft CAT A. B. C. D.

**3. 仪表飞行程序****3. IFR flight procedures**

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。

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****4. Radar procedures and/or ADS-B procedures**

进近管制区域内实施雷达管制，航空器最小水平

Radar control within Changchun APP has been

间隔为 10km。

implemented, the minimum horizontal radar separation is 10km.

5. 无线电通信失效程序

5. Radio communication failure procedures

无

Nil

6. 目视飞程序

6. Procedures for VFR flights

无

Nil

7. 目视飞行航线

7. VFR route

无

Nil

8. 目视参考点

8. Visual reference point

无

Nil

9. 其它规定

9. Other regulations

无

Nil

10. 区域导航飞行程序相关数据

10. Data for RNAV flight procedures

无

Nil

ZYCC AD 2.23 其它资料

ZYCC AD 2.23 Other information

机场全年有鸟类活动，鸟群种类较多，机场当局配备了驱鸟设备，采取了驱赶措施，以减少鸟群活动。

Activities of bird flocks take place all the year round,Aerodrome Authority resorts to dispersal methods to reduce bird activities.