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

ZBTJ-天津/滨海 TIANJIN/Binhai

ZBTJ 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	N39°07.4' E117°20.7' On RWY 16R/34L, 2000m inward THR16R
2	方向、距离 Direction and distance from city	095°GEO, 13.3km from city center square
3	标高/参考气温 Elevation / Reference temperature	1.8m/31.9℃(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	6°W(1975)/-
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	Tianjin Binhai International Airport Tianjin Binhai International Airport, Dongli District, Tianjin, China Post code:300300 TEL:86-22-24903355 AFS:ZBTJYFYX
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

ZBTJ 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)	H24
2	海关和移民 Customs and immigration	H24
3	卫生健康部门 Health and sanitation	H24
4	航行情报服务讲解室	H24

	AIS Briefing Office	
5	空中交通服务报告室 ATS Reporting Office (ARO)	H24
6	气象讲解室 MET Briefing Office	H24
7	空中交通服务 ATS	H24
8	加油 Fuelling	H24
9	地勤服务 Handling	H24
10	保安 Security	H24
11	除冰 De-icing	H24
12	备注 Remarks	Nil

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

1	货物装卸设施 Cargo-handling facilities	Tow trucks, platform lifts, forks, conveyor belt trucks, towing tractors, truck scales
2	燃油/滑油牌号 Fuel/oil types	Jet A-1, Nr.3 jet fuel --
3	加油设施/能力 Fuelling facilities/capacity	Refueling truck(10000 liters, 18000 liters and 65000 liters),20L/s; hydrant dispenser, 25L/s; piping system: apron refueling well, 140L/s --
4	除冰设施 De-icing facilities	De-icers, deicing fluid, anti-icing fluid; dedicated deicing apron
5	过站航空器机库 Hangar space for visiting aircraft	Air China airlines hangar, Tianjin airlines hangar, Tianjin Haite aircraft engineering Lt.Inc. hanger, Okay airways hanger
6	过站航空器的维修设施 Repair facilities for visiting aircraft	Line maintenance available for aircraft type below CAT F(inclusive) on request
7	备注 Remarks	Electrical power unit, air supply unit, potable water vehicle, sewage disposal vehicle, passenger stairs, ferry vehicle, garbage truck,

		air-conditioned bus.

ZBTJ 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	Taxi, bus
4	医疗设施 Medical facilities	Near AD
5	银行和邮局 Bank and Post Office	Near AD
6	旅行社 Tourist Office	Near AD
7	备注 Remarks	Nil

ZBTJ 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 9
2	援救设备 Rescue equipment	Fire fighting facilities: rapid intervention vehicle, foam tender, dry-chemical tender, fire-crash water tender, logistics truck, demolition rescue truck, illumination truck, command car, ambulance; Rescue equipment: uplift air cushion, air pump, fork lift, mobile surface operation devices.
3	搬移受损航空器的能力 Capability for removal of disabled aircraft	MTWA up to B747-400(under condition of nose undercarriage malfunction). Removal equipment: uplift air cushion, air pump, fork lift, mobile surface operation devices, traction rack, aircraft wirerope, lifting equipment
4	备注 Remarks	Crane and transporting equipment assembled by local government

ZBTJ 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 blowers, multi-purpose sweepers, snow slingers, spreader vehicle

2	扫雪顺序 Clearance priorities	RWY, TWY and Apron
3	备注 Remarks	Nil

ZBTJ 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:	CONC
		Strength:	PCN 95/R/B/W/T(stands Nr.212-213, 219-222, 228-230, 601-610) PCN 93/R/B/W/T(decing stands Nr.ZL1, ZL2) PCN 90/R/B/W/T(stands Nr.ZZ11L, ZZ11R, ZZ11-ZZ14) PCN 88/R/B/W/T(stands Nr.61-62) PCN 85/R/B/W/T(stands Nr.202-211, 214-218, 223-227) PCN 83/R/B/W/T(stands Nr.101-109, 409-419, 414L, 414R, 415L, 415R, 416L, 416R, 417L, 417R, 418L, 418R, 419L, 419R) PCN 81/R/B/X/T(stands Nr.884, 885) PCN 76/R/B/W/T(stands Nr.110-118, 201, 501-504) PCN 64/R/B/W/T(stands Nr.931-946) PCN 60/R/B/W/T(stands Nr.1-5, 9-13, 888-897) PCN 60/R/B/X/T(stands Nr.874-879, 921-925)
2	滑行道宽度、道面和强度 Taxiway width, surface and strength	Width:	48m: C3-C5; 46m: C6; 39m: B2, B7, C2, T1; 38m: W2; 34.5m: A11, B1, B8; 34m: A6（west of TWY A）, A8; 32m: A10（west of TWY A）, Y10; 31m: A3, C1, T2; 30.5m: W1, W9; 27m: B3-B6; 25m: A1, A7, B, D; 24.5m: A5; 24m: A9; 23m: A, A2, A4, A10(east of TWY A), A12, C, M, N, N1-N7, P, Q, S, T3-T6, W, W3, W5-W8, Y, Y9; 18m: A4, A6(east of TWY A), M1

		Surface:	CONC_ASPH
		Strength:	PCN 96/F/B/X/T(W5, W6, W8) PCN 95/R/B/W/T(M, N1-N3, N5-N7, Q, S, T5, T6) PCN 93/R/B/W/T(N, N4, P, W, W1, W2, W9) PCN 90/R/B/W/T(Y, Y9, Y10) PCN 88/R/B/W/T(A（BTN A10 & A11）, A11) PCN 86/F/B/W/T(A1, A4, A5, A7, B1-B7) PCN 85/R/B/W/T(A（BTN A1 & A10）, M1, T3, T4) PCN 83/R/B/W/T(B, B8, C, C1-C6, D, T1, T2) PCN 80/R/B/W/T(A6（west of TWY A）, A8-A10) PCN 74/R/B/W/T(W3, W7) PCN 64/F/B/W/T(A6（east of TWY A）) PCN 62/R/B/W/T(A（north of TWY A11）, A12) PCN 59/R/B/W/T(A3) PCN 48/R/B/W/T(A2)
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	

ZBTJ 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 RWY and TWY and at all holding positions. Guide lines at all aprons and all TWYs. All aircraft stands (except 1-5, 9-13, 605, 606, 874-879, 884, 885, 888-897, 921-925) identification sign board at apron.	
2	跑道和滑行道标志及灯光 RWY and TWY marking and LGT	RWY markings	THR, RWY designation, TDZ, aiming point marking, center line, edge line, displaced THR for RWY16R
		RWY lights	Center line, edge line, THR, wing bar, RWY end, TDZ
		TWY markings	Center line, edge line, RWY holding position, intermediate holding position, NO ENTRY marking
		TWY lights	Edge line, center line(for A, A1, A4-A8, A10(east of A) ,

			A11, B, B1-B8, C(BTN N＆C1), C1(BTN N1＆N3), M, M1, N, N1-N7, P, Q, S, W, W1-W3, W5-W9, Y9), intermediate holding position lights (for A, M, M1, N, N1-N3, N5-N7, P, Q, S, W, Y, Y9), rapid-exit taxiway indicator lights(for A5, A7, B3-B6, W3, W5-W8), RWY guard lights, No-entry bars (for A4, A5, A6(east of A), A7, B3-B6, W5, W6, W8)
3	停止排灯 Stop bars	For A1, A10, A11, B1, B2, B7, B8, W1, W2, W9, Y9	
4	备注 Remarks	Nil	

ZBTJ AD 2.10 机场障碍物 Aerodrome obstacles

Obstacles within a circle with a radius of 15km centered on the center of ARP

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	BLDG	012	4774	45.3	RWY34R Take-off path	
2	*Chimney	098	9546	170		
3	*Chimney	099	9530	154		
4	Chimney	149	10114	136.6	RWY16L Take-off path	
5	*Chimney	150	9729	205.4	RWY34L/R Initial approach, Intermediate approach RWY16L Take-off path	
6	*Chimney	151	9602	205.4	RWY34L/R Initial approach, Intermediate approach RWY16L Take-off path	
7	*Antenna	160	2700	14		
8	*Antenna	160	5600	39		

Obstacles within a circle with a radius of 15km centered on the center of ARP						
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
9	Light Pole	164	2280	11.6	RWY16R Take-off path	
10	*GP Antenna	166	1300	14		
11	*BLDG	173	4445	44.4		
12	*Antenna	197	2100	36		
13	BLDG	238	10000	214		
14	*Antenna	245	520	37		
15	*Iron TWR	252	13334	258		
16	BLDG	272	13363	257		
17	*TWR	278	12966	330		
18	BLDG	281	11624	246		
19	Light Pole	338	4276	29.9	RWY34L Take-off path	
20	*Antenna	340	2700	14		
21	*Antenna	340	5700	39		
Others:						

Obstacles between two circles with the radius of 15km and 50km centered on the center of ARP						
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	Chimney	021	16500	67		
2	Chimney	079	40000	152		
3	*Water TWR	082	50571	200		

Obstacles between two circles with the radius of 15km and 50km centered on the center of ARP						
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
4	*Chimney	082	51077	240		
5	*Chimney	088	39270	83		
6	Chimney	102	16750	57		
7	BLDG	116	32426	530		
8	Chimney	164	45000	124		
9	*Chimney	167	42646	156		
10	*BLDG	263	17276	116		
11	*TWR	265	15600	420	West sector	
12	BLDG	266	23244	597		
13	Antenna	278	29500	130		
14	Chimney	307	22700	85		
Others:						

ZBTJ 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	相关气象台的名称 Associated MET Office	Tianjin ATMB MET office of CAAC
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	H24
3	负责编发 TAF 的办公室;有效期 Office responsible for TAF preparation,Periods of validity	Tianjin ATMB MET office of CAAC 9 HR, 24 HR
4	趋势预报发布间隔 Type of landing forecast, Interval of issuance	Trend 30 MIN
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, 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 weather radar material, AWOS real-time data
8	提供信息的辅助设备 Supplementary equipment available for providing information	MET Service Terminal, FAX
9	提供气象情报的空中交通服务单位 ATS units provided with information	Tianjin TWR, Tianjin APP
10	观测类型与频率/自动观测设备 Type & frequency of observation/Automatic observation equipment	Half 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
12	观测系统及位置 Observation System & Site(s)	RVR EQPT A: 110m W of RCL, 370m inward THR16R; B: 110m W of RCL(16R/34L), 1570m inward THR34L; C: 110m W of RCL, 370m inward THR34L; D: 110m E of RCL, 360m inward THR16L; E: 110m E of RCL(16L/34R), 1570m inward THR34R; F: 110m E of RCL, 340m inward THR34R. SFC wind sensors 16R: 115m W of RCL, 390m inward THR16R; 34L: 115m W of RCL, 420m inward THR34L; 16R/34L Center: 115m W of RCL(16R/34L), 1560m inward THR34L; 16L: 115m E of RCL, 370m inward THR16L; 34R: 115m E of RCL, 380m inward THR34R; 16L/34R Center: 115m E of RCL(16L/34R), 1560m inward THR34R. Ceilometer 16R: near RCL,1000m outward THR16R; 34L: near RCL,1000m outward THR34L; 16L: near RCL,300m outward THR16L; 34R: near RCL,300m outward THR34R.

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

ZBTJ 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 / SWYsurface	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
16L	154 °GEO 160 °MAG	3200×45	93/R/B/W/T (0-1000m FM both end) CONC 74/R/B/W/T (central part) CONC/-	Nil	THR1.3m
34R	334 °GEO 340 °MAG	3200×45	93/R/B/W/T (0-1000m FM both end) CONC 74/R/B/W/T (central part) CONC/-	Nil	THR1.4m
16R	154 °GEO 160 °MAG	3600×60	86/F/B/W/T ASPH/ASPH	Nil	THR1.6m
34L	334 °GEO 340 °MAG	3600×60	86/F/B/W/T ASPH/ASPH	Nil	THR1.8m

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
0.0%	Nil	Nil	3320×300	Nil	240×120
0.0%	Nil	Nil	3320×300	Nil	240×150
0.0%	60×75	200×190	3840×300	Nil	200×150
0.0%	60×60	200×190	3840×300	Nil	240×150
Remark: Distance between RCL of RWY16R/34L and RCL of RWY16L/34R is 2100m; RWY34R THR is 500m south of RWY34L THR; RWY16L/34R grooved: 6mm×6mm×32mm; RWY shoulder: 7.5m on each side.					

ZBTJ 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
16R	3600	3800	3660	3200	THR displaced 400m inwards
16R	3200	3400	3260	3200	FM A10/B7
34L	3600	3800	3660	3600	Nil
34L	3400	3600	3460	3600	FM B2
16L	3200	3200	3200	3200	Nil
34R	3200	3200	3200	3200	Nil
34R	3038	3038	3038	3200	FM W2
Remark: Nil					

ZBTJ 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
16R	PALS CAT II* 900m VRB LIH	GREEN Yes	PAPI LEFT/3° 19.57m	900m	3200m** spacing 15m	3600m**** spacing 60m	RED	60m RED
34L	PALS CAT I* 900m VRB LIH	GREEN Yes	PAPI LEFT/3° 18.01m	900m	3600m*** spacing 15m	3600m***** spacing 60m	RED	60m RED
16L	PALS CAT II* 900m VRB LIH	GREEN Yes	PAPI LEFT/3° 19m	900m	3200m** spacing 15m	3200m****** spacing 60m	RED	Nil
34R	PALS CAT II* 900m VRB LIH	GREEN Yes	PAPI LEFT/3° 19m	900m	3200m** spacing 15m	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 2700m WHITE VRB LIH, 2700-3300m RED/WHITE VRB LIH, 3300-3600m RED VRB LIH

**** up to 400m Red VRB LIH, 400-3000m White VRB LIH, 3000-3600m Yellow VRB LIH

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
*****up to 3000m WHITE VRB LIH, 3000-3600m YELLOW VRB LIH ******up to 2600m WHITE VRB LIH, 2600-3200m YELLOW VRB LIH FM THR16R-DTHR16R: APCH LGT.								

ZBTJ 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	着陆方向标/风向标位置和灯光 LDI/WDI location and LGT	WDI: 16R:107m E of RCL, 799m inward THR16R, with lights; 34L:89m W of RCL, 355m inward THR34L, with lights; 16L:80m E of RCL, 422m inward THR16L, with lights; 34R:100m W of RCL, 345m inward THR34R, with lights
3	滑行道边灯和中线灯 TWY edge and center line lighting	AVBL
4	备份电源/转换时间 Secondary power supply/switch-over time	Standby power supply available/ less than 15s for CAT I , less than 1s for CAT II or HUD CAT II APCH LGT.
5	备注 Remarks	RWY guard lights: the two yellow lights alternating flashing.

ZBTJ 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（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

ZBTJ 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
Tianjin tower control area	N390900E1171400 - N391600E1171400 - N391800E1172200 - N385800E1174000 - N385800E1172000 - N390900E1171400	SFC-600m MSL	
Fuel dumping area	N38 58.0E117 58.0- N38 35.0E119 24.0- N38 24.0E119 19.0- N38 49.0E117 55.0- N38 58.0E117 58.0	Above 4000m	
Altimeter setting region and TL/TA	Same as Tianjin APP area	TL 3600m TA 3000m 3300m(QNH≥1031hPa) 2700m(QNH≤979hPa)	

ZBTJ 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

服务名称 Service Designation	呼号 Call sign	频率 Frequency (MHz)	工作时间 Hours of operation	备注 Remarks
ATIS		126.4	H24	
APP	Tianjin Approach	127.9(120.9)APP01	by ATC	
APP	Tianjin Approach	125.25(120.9)APP02	by ATC	Contact ZBTJ APP01 when ZBTJ APP02 U/S.
APP	Tianjin Approach	119.275(120.9)APP03	H24	
TWR	Tianjin Tower	118.875(118.425)	HO	
TWR	Tianjin Tower	118.2(130.0)	H24	
GND	Tianjin Delivery	121.8	HO	
GND	Tianjin Ground	121.95(121.65)	HO	
EMG		121.5	H24	

ZBTJ 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
Donglihu VOR/DME	TJK	113.4MHz CH81X	N39°09.4' E117°31.2'		
Tianjin VOR/DME	TAJ	112.1MHz CH58X	N39°06.6′ E117°21.5′ 206m E of RCL(16R/34L);106m S of THR34L	11m	
IM 16L		75MHz	160°MAG/320m FM THR16L		
LOC 16L ILS CAT I	ICU	109.7MHz	160°MAG/310m FM RWY16L end		
GP 16L		333.2MHz	120m E of RCL 315m inward THR16L		Angle 3°, RDH 16m Coverage 25km
DME 16L	ICU	CH34X			Co-located with GP

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
		(109.7MHz)			16L
OM 16R		75MHz	340 °MAG/ 4100m FM THR16R		
MM 16R		75MHz	340 °MAG/ 1100m FM DTHR16R		
LOC 16R ILS CAT I	IJS	110.9MHz	160 °MAG/385m FM RWY16R end		
GP 16R		330.8MHz	132m W of RCL 332m inward DTHR16R		Angle 3 °, RDH 15.6m Coverage 25km
DME 16R	IJS	CH46X (110.9MHz)		7m	Co-located with GP 16R
OM 34L		75MHz	160 °MAG/7795m FM THR34L		
MM 34L		75MHz	160 °MAG/1100m FM THR34L		
LOC 34L ILS CAT I	ICG	110.5MHz	340 °MAG/319m FM RWY34L end		
GP 34L		329.6MHz	132m W of RCL 330m inward THR34L		Angle 3 °, RDH 16.6m Coverage 25km
DME 34L	ICG	CH42X (110.5MHz)		8m	Co-located with GP 34L
IM 34R		75MHz	340 °MAG/340m FM THR34R		
LOC 34R ILS CAT I	IKD	111.5MHz	340 °MAG/284m FM RWY34R end		
GP 34R		332.9MHz	120m E of RCL 314.4m inward THR34R		Angle 3 °, RDH 16.4m, Coverage 25km
DME 34R	IKD	CH52X		7m	Co-located with GP

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
		(111.5MHz)			34R

ZBTJ AD 2.20 本场飞行规定

ZBTJ AD 2.20 Local traffic regulations

1. 机场使用规定

所有训练飞行和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.Airport operations regulations

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

2. 跑道和滑行道的使用

2.1 可以通过地面指挥中心申请引导车和拖车服务;

2.2 禁止航空器在滑行道上做 180°转弯;

2.3 不得利用自身动力进入机库;

2.4 601 与 610 机位之间的 Q 滑行道仅允许翼展小于 36 米的航空器使用。

2.5 每日按需实施双跑道隔离平行运行模式:

2.5.1 双跑道隔离平行运行期间，RWY16R/34L 用于起飞，RWY16L/34R 用于着陆，机组注意收听

2. Use of runways and taxiways

2.1 Follow-me vehicle service and towing service are available via ground control center;

2.2 180° turnaround on TWY is forbidden for all aircraft;

2.3 It is strictly forbidden for aircraft get into hangar on its own power;

2.4 TWY Q(BTN Stand Nr.601 &610) is only available for aircraft with wing span less than 36m.

2.5 Implement segregated parallel approaches/departures daily on demand :

2.5.1 When segregated parallel approaches/departures implemented, RWY16R/34L

机场情报通播。

is used for departure, RWY16L/34R is used for landing, please pay attention to the ATIS information.

2.5.2 RWY16L/34R 可起降最大机型为 AN-124。

2.5.2 RWY16L/34R is used for aircraft type AN-124 and below.

3. 机坪和机位的使用

3. Use of aprons and parking stands

3.1 发动机试车，需经地面管制许可，并在指定的地点进行；

3.1 Engine run-ups are subject to Ground Control clearance, and shall be carried out at a designated location;

3.2 客货机坪机位对航空器翼展的限制/Wingspan limits for aircraft parking on the stands:

停机位/Stands	航空器翼展限制/ Wing span limits for aircraft (m)
Nr.61, 62, 414-416, ZZ14	80
Nr.9, 10, 101, 102, 105, 212, 219-222, 228, 417-419, 874-876, 895-897	65
ZZ11	61
Nr. 103, 104, 106, 107, 109, 117, 890-894, ZL1-ZL2(deicing stands)	52
Nr.878, 879	51
Nr.229-230	48
Nr.11-13	47.6
Nr.877	42
Nr1-5, 108, 110-116, 118, 201-211, 213-218, 223-227, 409-413, 414L, 414R, 415L, 415R, 416L, 416R, 417R, 418R, 419R, 501-504, 601-610, 888, 889, ZZ11L, ZZ12, ZZ13	36

Nr.921-925	34.3
ZZ11R	32
Nr. 884, 885	29(fuselage length≤32.8)
Nr.417L, 18L, 419L, 931-946	24

3.3 航空器需联系地面管制，在指定地点进行除冰，结束后联系塔台；	3.3 Deicing at the designated stand by GND Control; contact TWR when finished;
3.4 联系 128.85MHz 可获取停机坪服务；	3.4 Contact 128.85MHz for apron services;
3.5 使用南除冰坪进行除冰时应与 128.85MHz 进行联系。	3.5 Contact 128.85MHz for deicing service on south deicing apron.
3.6 相邻机位的运行限制	3.6 Adjacent stands operation limits:

3.6.1 航空器不能同时使用的机位/Pair of stands forbidden to use simultaneously:

使用机位 The stand in use	禁用机位 The stands forbidden to be used	使用机位 The stand in use	禁用机位 The stands forbidden to be used
414	414L, 414R	414L or 414R	414
415	415L, 415R	415L or 415R	415
416	416L, 416R	416L or 416R	416
417	417L, 417R	417L or 417R	417
418	418L, 418R	418L or 418R	418
419	419L, 419R	419L or 419R	419

3.6.2 飞机推出影响机位/Stands affected by aircraft push-back:

序号	机位	受影响机位	序号	机位	受影响机位

Nr.	Stands Nr.	Affected stands	Nr.	Stands Nr.	Affected stands
1	501	502, 503	23	210	208, 209, 211
2	502	501, 503, 504	24	211	210
3	503	502, 504, 110	25	212	213
4	504	503, 110, 111	26	213	212
5	110	504, 111, 112	27	214	215
6	111	110, 112, 113	28	215	214, 216
7	112	111, 113, 114	29	216	214, 215, 217
8	113	112,114-116	30	217	215, 216, 218
9	114	113,115-117	31	218	216, 217
10	115	113, 114, 116, 117	32	219	220 (aircraft type above CAT C)
11	116	114, 115, 117, 118, 201, 202	33	220	219 (aircraft type above CAT C) , 221
12	117	116, 118, 201, 202, 203, 204	34	221	220, 222
13	118	117, 201-205	35	222	221,223,224(aircraft type CAT C); 221-226(aircraft type above CAT C)
14	201	115-118, 202	36	223	222, 224, 225
15	202	115-118, 201, 203	37	224	222, 223, 225
16	203	116-118, 201, 202, 204	38	225	224, 226
17	204	117, 118, 201, 202, 203, 205	39	226	225, 227-229
18	205	118, 203, 204,	40	227	226, 228-230

		206			
19	206	204, 205, 207	41	228	226, 227, 229, 230
20	207	205, 206, 208	42	229	226-228, 230
21	208	206, 207, 209	43	230	227-229
22	209	207, 208, 210			

4. 进、离场管制规定

无

4. Air traffic control regulations

Nil

5. 机场的 II/III 类运行

5.1 使用 HUD 可在本场 16L 跑道实施特殊批准 I 类运行。

5.2 使用 HUD 可在本场 16L 跑道实施特殊批准 II 类运行。

5.3 使用 HUD 可在本场 16L 及 34R 跑道实施 RVR 不低于 150m 低能见度起飞。

5.4 天津机场启动低能见度运行程序期间注意事项：

5.4.1 航空器营运人负责确认飞机装备的 HUD 设备工作正常且执飞的飞行机组具备 HUD 运行资格，一般至少提前 30 分钟向空管提出运行申请及报告。

5.4.2 机组须注意收听自动情报服务广播（ATIS），

5. CAT II/III operations at AD

5.1 Aircraft equiped with HUD can carry out special CAT I on RWY16L.

5.2 Aircraft equiped with HUD can carry out special CAT II on RWY16L.

5.3 Aircraft equiped with HUD can carry out LVO(RVR no less than 150m) on RWY16L/34R.

5.4 Notes during implementing LVO：

5.4.1 The operator shall get the authorization from the applicable foreign regulatory authority, and shall file an application at least 30min in advance to ATC.

5.4.2 Flight crew shall pay attention to ATIS and

并审核自身 HUD 能力和天气标准。

check own HUD capabilities and weather conditions.

5.4.3 引导车依据塔台指令，对提出引导需求的进出港航空器实施引导。引导车在引导航空器时，车辆行驶速度不得超过 20km/h，引导车脱离后应关闭顶灯以示意航空器脱离引导，机组按塔台指令滑行。当因局部地区能见度极低，引导车存在引导困难时，机组可按塔台指挥自滑或采取其他替代措施.

5.4.3 According to TWR instructions, follow-me vehicle will guide landing and departure A/C if necessary. The speed of follow-me vehicle should be less than 20km/h, the follow-me vehicle lights off means end guiding and flight crew shall taxi by ATC. When VIS in local area is too low and follow-me vehicle is difficult to guide, flight crew shall taxi by TWR instructions or take other measures instead.

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

ZBTJ AD 2.21 噪音限制规定及减噪程序

ZBTJ AD 2.21 Noise restrictions and Noise abatement procedures

无

Nil

ZBTJ AD 2.22 飞行程序

ZBTJ AD 2.22 Flight procedures

1. 总则

除经天津进近或塔台特殊许可外，在天津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。

1. General

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

2. 起落航线

起落航线在各跑道东侧，A、B 类航空器高度 300 米，C、D 类航空器高度 300－500 米。

2. Traffic circuits

Traffic circuits shall be made to the east of each RWY, at the altitude of 300m for aircraft CAT A/B, and 300-500m for aircraft CAT C/D.

3. 仪表飞行程序

3.1 严格按照航图中公布的进、离场程序和 ENR2.2.1 中公布的有关规定飞行。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

3.1 Strict adherence is required to the relevant arrival/departure procedures published in the aeronautical charts and the relevant regulations published in subsection ENR2.2.1. Aircraft may, if necessary, hold or maneuver on an airway, over a navigation facility or a fix designated by ATC;

3.2 在区域 N3909.0E11714.0-N3916.0E11714.0-N3918.0E11722.0-N3913.0E11727.5-N3909.0 E11714.0 内飞行，除提前申请，均限制在 800m(含)以下。

3.2 Flight altitudes within the area of N3909.0 E11714.0-N3916.0 E11714.0-N3918.0 E11722.0-N3913.0 E11727.5-N3909.0 E11714.0 are restricted at or below 800m unless prior applications have been made.

4. 雷达程序和/或 ADS-B 程序

4. Radar procedures and/or ADS-B procedures

4.1 天津进近管制区域内实施雷达管制。在进近管制区范围内最小水平间隔为 6 千米，垂直间隔 300 米；

4.1 Radar control within Tianjin APP has been implemented. The minimum horizontal radar separation is 6km and the minimum vertical radar separation is 300m for aircraft within Tianjin APP;

4.2 雷达引导与排序:通常，航空器从大王庄 VOR（VYK）、石各庄 NDB （VM）或管制移交点得到进近雷达引导和排序，直至相应的最后进近航迹或目视跑道。根据航空器性能或管制规定，发布雷达引导、上升或下降高度及速度调整的指令，使航空器之间保持规定的雷达间隔或尾流间隔。

4.2 Radar vectoring and sequencing: Normally, aircraft will be vectored and sequenced from Dawangzhuang VOR(VYK), Shigezhuang NDB(VM) or transfer of control points to the appropriate final approach track or to the time when RWY is in sight. Instructions about radar vectors, ascent/descent altitudes or speed adjustment will be issued for spacing and separating the aircraft so that stipulated radar intervals and wake intervals are maintained, taking into account aircraft characteristics or control regulations.

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

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**

Waypoint Coordinates

Waypoint ID	COORDINATES	Waypoint ID	COORDINATES
TJ811	N391540 E1170800	TJ911	N385757 E1172638
TJ812	N390650 E1171320	TJ912	N385952 E1174219
TJ813	N385615 E1172030	TJ913	N385431 E1174320
TJ814	N385344 E1171319	TJ914	N385341 E1173614
TJ815	N390102 E1170850	TJ915	N385548 E1172352
TJ817	N385700 E1172718	TJ916	N385545 E1171330
TJ820	N384723 E1173315	TJ919	N391248 E1170947
TJ821	N384500 E1172710	TJ920	N390700 E1171330
TJ822	N384020 E1171520	TJ921	N385940 E1171810
TJ823	N384700 E1171100	TJ922	N385210 E1172250
TJ824	N385049 E1165114	TJ923	N384500 E1172710
TJ827	N385710 E1172841	TJ924	N384020 E1171520
TJ830	N384749 E1173422	TJ925	N384700 E1171100
TJ832	N390600 E1172935	TJ926	N385052 E1165114
TJ833	N390515 E1174335	TJ927	N384630 E1164100
TJ834	N385955 E1174300	TJ931	N385812 E1172806
TJ835	N390100 E1172215	TJ944	N384100 E1174200
TJ836	N390704 E1170830	TJ945	N383800 E1175300
TJ837	N392306 E1170124	TJ953	N391509 E1171559

TJ838	N393049 E1165756	TJ954	N391540 E1171720
TJ839	N393823 E1170926	TJ960	N391800 E1172330
TJ840	N384632 E1173509	TJ961	N391215 E1172715
TJ841	N384145 E1174630	TJ962	N390550 E1173215
TJ851	N400407 E1170443	TJ963	N390500 E1174900
TJ852	N402449 E1170053	TJ964	N384650 E1175700
TJ862	N383940 E1175130	TJ980	N402449 E1170053
TJ863	N384650 E1175700	TJ986	N390704 E1170830
TJ864	N390500 E1174900	TJ987	N391700 E1172030
TJ865	N390550 E1173215	TJ988	N392537 E1171145
TJ866	N391700 E1172030	TJ989	N393823 E1170926
TJ867	N392537 E1171145	AVBOX	N3838.9 E11622.7
TJ868	N393823 E1170926	BOTPU	N3959.1 E11528.5
TJ869	N402449 E1170053	DUMAP	N3835.5 E11801.8
TJ884	N390704 E1170830	ELKUR	N3838.4 E11639.9
TJ892	N400730 E1162206	GUVBA	N4026.0 E11531.8
TJ895	N390100 E1173250	IDKEX	N4046.7 E11634.0
TJ896	N390600 E1172935	IGMOR	N3849.9 E11801.9
TJ897	N392020 E1172040	MUGLO	N3904.2 E11802.1
TJ898	N391825 E1171534	OMDEK	N3839.3 E11605.5
TJ899	N391757 E1171416	PEGSO	N3856.7 E11530.3

Path Terminator	Waypoint ID	Fly over	Magnetic Course (°)	Turn Direction	Altitude (m)	IAS (kt)	VPA/ TCH	Navigation Specification
RWY16R Departure IDKEX-4ZD								
CF	TJ911		160		↑900			RNAV1

TF	TJ912				2100			RNAV1
TF	TJ913				2400	MAX230		RNAV1
TF	TJ914				2700			RNAV1
TF	TJ915				↑3600			RNAV1
TF	TJ916				3900			RNAV1
TF	TJ837							RNAV1
TF	TJ838				3900			RNAV1
TF	TJ839				4200			RNAV1
TF	TJ851				5400			RNAV1
TF	TJ852				↓5700 ↑5400			RNAV1
TF	IDKEX				6000			RNAV1
RWY16L Departure IDKEX-6ZD								
CF	TJ931		160		↑900			RNAV1
TF	TJ912				2100			RNAV1
TF	TJ913				2400	MAX230		RNAV1
TF	TJ914				2700			RNAV1
TF	TJ915				↑3600			RNAV1
TF	TJ916				3900			RNAV1
TF	TJ837							RNAV1
TF	TJ838				3900			RNAV1
TF	TJ839				4200			RNAV1
TF	TJ851				5400			RNAV1
TF	TJ852				↓5700 ↑5400			RNAV1
TF	IDKEX				6000			RNAV1
RWY16R Departure BOTPU-4ZD								

CF	TJ911		160		↑900			RNAV1
TF	TJ912				2100			RNAV1
TF	TJ913				2400	MAX230		RNAV1
TF	TJ914				2700			RNAV1
TF	TJ915				↑3600			RNAV1
TF	TJ916				3900			RNAV1
TF	TJ837							RNAV1
TF	TJ838				3900			RNAV1
TF	TJ839				4200			RNAV1
TF	TJ851				5400			RNAV1
TF	TJ892				5700			RNAV1
TF	BOTPU				↑6000			RNAV1
RWY16L Departure BOTPU-6ZD								
CF	TJ931		160		↑900			RNAV1
TF	TJ912				2100			RNAV1
TF	TJ913				2400	MAX230		RNAV1
TF	TJ914				2700			RNAV1
TF	TJ915				↑3600			RNAV1
TF	TJ916				3900			RNAV1
TF	TJ837							RNAV1
TF	TJ838				3900			RNAV1
TF	TJ839				4200			RNAV1
TF	TJ851				5400			RNAV1
TF	TJ892				5700			RNAV1
TF	BOTPU				↑6000			RNAV1
RWY16R Departure ELKUR-4ZD								
CF	TJ911		160		↑900			RNAV1

TF	TJ912				2100			RNAV1
TF	TJ913				2400	MAX230		RNAV1
TF	TJ914				2700			RNAV1
TF	TJ915				↑3600			RNAV1
TF	ELKUR				↓4500 ↑4200			RNAV1
RWY16L Departure ELKUR-6ZD								
CF	TJ931		160		↑900			RNAV1
TF	TJ912				2100			RNAV1
TF	TJ913				2400	MAX230		RNAV1
TF	TJ914				2700			RNAV1
TF	TJ915				↑3600			RNAV1
TF	ELKUR				↓4500 ↑4200			RNAV1
RWY16R Departure OMDEK-4ZD								
CF	TJ911		160		↑900			RNAV1
TF	TJ912				2100			RNAV1
TF	TJ913				2400	MAX230		RNAV1
TF	TJ914				2700			RNAV1
TF	TJ915				↑3600			RNAV1
TF	ELKUR				↓4500 ↑4200			RNAV1
TF	OMDEK				@4500			RNAV1
RWY16L Departure OMDEK-6ZD								
CF	TJ931		160		↑900			RNAV1
TF	TJ912				2100			RNAV1
TF	TJ913				2400	MAX230		RNAV1
TF	TJ914				2700			RNAV1

TF	TJ915				↑3600			RNAV1
TF	ELKUR				↓4500 ↑4200			RNAV1
TF	OMDEK				@4500			RNAV1
RWY16R Departure PEGSO-4ZD								
CF	TJ911		160		↑900			RNAV1
TF	TJ912				2100			RNAV1
TF	TJ913				2400	MAX230		RNAV1
TF	TJ914				2700			RNAV1
TF	TJ915				↑3600			RNAV1
TF	ELKUR				↓4500 ↑4200			RNAV1
TF	OMDEK				@4500			RNAV1
TF	PEGSO				↑4500			RNAV1
RWY16L Departure PEGSO-6ZD								
CF	TJ931		160		↑900			RNAV1
TF	TJ912				2100			RNAV1
TF	TJ913				2400	MAX230		RNAV1
TF	TJ914				2700			RNAV1
TF	TJ915				↑3600			RNAV1
TF	ELKUR				↓4500 ↑4200			RNAV1
TF	OMDEK				@4500			RNAV1
TF	PEGSO				↑4500			RNAV1
RWY16R Departure MUGLO-4ZD								
CF	TJ911		160		↑900			RNAV1
TF	TJ912				2100			RNAV1
TF	MUGLO				↑2700			RNAV1

RWY16L Departure MUGLO-6ZD								
CF	TJ931		160		↑900			RNAV1
TF	TJ912				2100			RNAV1
TF	MUGLO				↑2700			RNAV1
RWY16R Departure IGMOR-4ZD								
CF	TJ911		160		↑900			RNAV1
TF	TJ912				2100			RNAV1
TF	IGMOR				↑3000			RNAV1
RWY16L Departure IGMOR-6ZD								
CF	TJ931		160		↑900			RNAV1
TF	TJ912				2100			RNAV1
TF	IGMOR				↑3000			RNAV1
RWY34L Departure IDKEX-5ZD								
CF	TJ899		340		↑900			RNAV1
TF	TJ897				1200	MAX230		RNAV1
TF	TJ896				2700			RNAV1
TF	TJ895				3000			RNAV1
TF	TJ813				↑3600			RNAV1
TF	TJ814				3900			RNAV1
TF	TJ815							RNAV1
TF	TJ836							RNAV1
TF	TJ837							RNAV1
TF	TJ838				3900			RNAV1
TF	TJ839				4200			RNAV1
TF	TJ851				5400			RNAV1
TF	TJ852				↓5700 ↑5400			RNAV1

TF	IDKEX				6000			RNAV1
RWY34R Departure IDKEX-7ZD								
CF	TJ898		340		↑900			RNAV1
TF	TJ897				1200	MAX230		RNAV1
TF	TJ896				2700			RNAV1
TF	TJ895				3000			RNAV1
TF	TJ813				↑3600			RNAV1
TF	TJ814				3900			RNAV1
TF	TJ815							RNAV1
TF	TJ836							RNAV1
TF	TJ837							RNAV1
TF	TJ838				3900			RNAV1
TF	TJ839				4200			RNAV1
TF	TJ851				5400			RNAV1
TF	TJ852				↓5700 ↑5400			RNAV1
TF	IDKEX				6000			RNAV1
RWY34L Departure IDKEX-5TD(by ATC)								
CF	TJ899		340		↑900			RNAV1
TF	TJ811				↑1200			RNAV1
TF	TJ812				↑2100			RNAV1
TF	TJ813				↑3600			RNAV1
TF	TJ814				3900	MAX230		RNAV1
TF	TJ815							RNAV1
TF	TJ836							RNAV1
TF	TJ837							RNAV1
TF	TJ838				3900			RNAV1

TF	TJ839				4200			RNAV1
TF	TJ851				5400			RNAV1
TF	TJ852				↓5700 ↑5400			RNAV1
TF	IDKEX				6000			RNAV1
RWY34R Departure IDKEX-7TD(by ATC)								
CF	TJ898		340		↑900			RNAV1
TF	TJ811				↑1200			RNAV1
TF	TJ812				↑2100			RNAV1
TF	TJ813				↑3600			RNAV1
TF	TJ814				3900	MAX230		RNAV1
TF	TJ815							RNAV1
TF	TJ836							RNAV1
TF	TJ837							RNAV1
TF	TJ838				3900			RNAV1
TF	TJ839				4200			RNAV1
TF	TJ851				5400			RNAV1
TF	TJ852				↓5700 ↑5400			RNAV1
TF	IDKEX				6000			RNAV1
RWY34L Departure BOTPU-5ZD								
CF	TJ899		340		↑900			RNAV1
TF	TJ897				1200	MAX230		RNAV1
TF	TJ896				2700			RNAV1
TF	TJ895				3000			RNAV1
TF	TJ813				↑3600			RNAV1
TF	TJ814				3900			RNAV1

TF	TJ815							RNAV1
TF	TJ836							RNAV1
TF	TJ837							RNAV1
TF	TJ838				3900			RNAV1
TF	TJ839				4200			RNAV1
TF	TJ851				5400			RNAV1
TF	TJ892				5700			RNAV1
TF	BOTPU				↑6000			RNAV1
RWY34R Departure BOTPU-7ZD								
CF	TJ898		340		↑900			RNAV1
TF	TJ897				1200	MAX230		RNAV1
TF	TJ896				2700			RNAV1
TF	TJ895				3000			RNAV1
TF	TJ813				↑3600			RNAV1
TF	TJ814				3900			RNAV1
TF	TJ815							RNAV1
TF	TJ836							RNAV1
TF	TJ837							RNAV1
TF	TJ838				3900			RNAV1
TF	TJ839				4200			RNAV1
TF	TJ851				5400			RNAV1
TF	TJ892				5700			RNAV1
TF	BOTPU				↑6000			RNAV1
RWY34L Departure BOTPU-5TD(by ATC)								
CF	TJ899		340		↑900			RNAV1
TF	TJ811				↑1200			RNAV1
TF	TJ812				↑2100			RNAV1

TF	TJ813				↑3600			RNAV1
TF	TJ814				3900	MAX230		RNAV1
TF	TJ815							RNAV1
TF	TJ836							RNAV1
TF	TJ837							RNAV1
TF	TJ838				3900			RNAV1
TF	TJ839				4200			RNAV1
TF	TJ851				5400			RNAV1
TF	TJ892				5700			RNAV1
TF	BOTPU				↑6000			RNAV1
RWY34R Departure BOTPU-7TD(by ATC)								
CF	TJ898		340		↑900			RNAV1
TF	TJ811				↑1200			RNAV1
TF	TJ812				↑2100			RNAV1
TF	TJ813				↑3600			RNAV1
TF	TJ814				3900	MAX230		RNAV1
TF	TJ815							RNAV1
TF	TJ836							RNAV1
TF	TJ837							RNAV1
TF	TJ838				3900			RNAV1
TF	TJ839				4200			RNAV1
TF	TJ851				5400			RNAV1
TF	TJ892				5700			RNAV1
TF	BOTPU				↑6000			RNAV1
RWY34L Departure IDKEX-5YD								
CA			340		130	MAX205		RNAV1
DF	TJ832			R	900	MAX230		RNAV1

TF	TJ833				1800			RNAV1
TF	TJ834				2100	MAX250		RNAV1
TF	TJ835				↑3600			RNAV1
TF	TJ836				3900			RNAV1
TF	TJ837							RNAV1
TF	TJ838				3900			RNAV1
TF	TJ839				4200			RNAV1
TF	TJ851				5400			RNAV1
TF	TJ852				↓5700 ↑5400			RNAV1
TF	IDKEX				6000			RNAV1
RWY34R Departure IDKEX-7YD								
CA			340		130	MAX205		RNAV1
DF	TJ832			R	900	MAX230		RNAV1
TF	TJ833				1800			RNAV1
TF	TJ834				2100	MAX250		RNAV1
TF	TJ835				↑3600			RNAV1
TF	TJ836				3900			RNAV1
TF	TJ837							RNAV1
TF	TJ838				3900			RNAV1
TF	TJ839				4200			RNAV1
TF	TJ851				5400			RNAV1
TF	TJ852				↓5700 ↑5400			RNAV1
TF	IDKEX				6000			RNAV1
RWY34L Departure BOTPU-5YD								
CA			340		130	MAX205		RNAV1

DF	TJ832			R	900	MAX230		RNAV1
TF	TJ833				1800			RNAV1
TF	TJ834				2100	MAX250		RNAV1
TF	TJ835				↑3600			RNAV1
TF	TJ836				3900			RNAV1
TF	TJ837							RNAV1
TF	TJ838				3900			RNAV1
TF	TJ839				4200			RNAV1
TF	TJ851				5400			RNAV1
TF	TJ892				5700			RNAV1
TF	BOTPU				↑6000			RNAV1
RWY34R Departure BOTPU-7YD								
CA			340		130	MAX205		RNAV1
DF	TJ832			R	900	MAX230		RNAV1
TF	TJ833				1800			RNAV1
TF	TJ834				2100	MAX250		RNAV1
TF	TJ835				↑3600			RNAV1
TF	TJ836				3900			RNAV1
TF	TJ837							RNAV1
TF	TJ838				3900			RNAV1
TF	TJ839				4200			RNAV1
TF	TJ851				5400			RNAV1
TF	TJ892				5700			RNAV1
TF	BOTPU				↑6000			RNAV1
RWY34L Departure ELKUR-5ZD								
CF	TJ899		340		↑900			RNAV1
TF	TJ897				1200	MAX230		RNAV1

TF	TJ896				2700			RNAV1
TF	TJ895				3000			RNAV1
TF	TJ813				↑3600			RNAV1
TF	TJ814				3900			RNAV1
TF	ELKUR				↓4500 ↑4200			RNAV1
RWY34R Departure ELKUR-7ZD								
CF	TJ898		340		↑900			RNAV1
TF	TJ897				1200	MAX230		RNAV1
TF	TJ896				2700			RNAV1
TF	TJ895				3000			RNAV1
TF	TJ813				↑3600			RNAV1
TF	TJ814				3900			RNAV1
TF	ELKUR				↓4500 ↑4200			RNAV1
RWY34L Departure ELKUR-5TD(by ATC)								
CF	TJ899		340		↑900			RNAV1
TF	TJ811				↑1200	MAX230		RNAV1
TF	TJ812				↑2100			RNAV1
TF	TJ813				↑3600			RNAV1
TF	TJ814				3900			RNAV1
TF	ELKUR				↓4500 ↑4200			RNAV1
RWY34R Departure ELKUR-7TD(by ATC)								
CF	TJ898		340		↑900			RNAV1
TF	TJ811				↑1200	MAX230		RNAV1
TF	TJ812				↑2100			RNAV1
TF	TJ813				↑3600			RNAV1

TF	TJ814				3900			RNAV1
TF	ELKUR				↓4500 ↑4200			RNAV1
RWY34L Departure OMDEK-5ZD								
CF	TJ899		340		↑900			RNAV1
TF	TJ897				1200	MAX230		RNAV1
TF	TJ896				2700			RNAV1
TF	TJ895				3000			RNAV1
TF	TJ813				↑3600			RNAV1
TF	TJ814				3900			RNAV1
TF	ELKUR				↓4500 ↑4200			RNAV1
TF	OMDEK				@4500			RNAV1
RWY34R Departure OMDEK-7ZD								
CF	TJ898		340		↑900			RNAV1
TF	TJ897				1200	MAX230		RNAV1
TF	TJ896				2700			RNAV1
TF	TJ895				3000			RNAV1
TF	TJ813				↑3600			RNAV1
TF	TJ814				3900			RNAV1
TF	ELKUR				↓4500 ↑4200			RNAV1
TF	OMDEK				@4500			RNAV1
RWY34L Departure OMDEK-5TD(by ATC)								
CF	TJ899		340		↑900			RNAV1
TF	TJ811				↑1200	MAX230		RNAV1
TF	TJ812				↑2100			RNAV1
TF	TJ813				↑3600			RNAV1

TF	TJ814				3900			RNAV1
TF	ELKUR				↓4500 ↑4200			RNAV1
TF	OMDEK				@4500			RNAV1
RWY34R Departure OMDEK-7TD(by ATC)								
CF	TJ898		340		↑900			RNAV1
TF	TJ811				↑1200	MAX230		RNAV1
TF	TJ812				↑2100			RNAV1
TF	TJ813				↑3600			RNAV1
TF	TJ814				3900			RNAV1
TF	ELKUR				↓4500 ↑4200			RNAV1
TF	OMDEK				@4500			RNAV1
RWY34L Departure PEGSO-5ZD								
CF	TJ899		340		↑900			RNAV1
TF	TJ897				1200	MAX230		RNAV1
TF	TJ896				2700			RNAV1
TF	TJ895				3000			RNAV1
TF	TJ813				↑3600			RNAV1
TF	TJ814				3900			RNAV1
TF	ELKUR				↓4500 ↑4200			RNAV1
TF	OMDEK				@4500			RNAV1
TF	PEGSO				↑4500			RNAV1
RWY34R Departure PEGSO-7ZD								
CF	TJ898		340		↑900			RNAV1
TF	TJ897				1200	MAX230		RNAV1
TF	TJ896				2700			RNAV1

TF	TJ895				3000			RNAV1
TF	TJ813				↑3600			RNAV1
TF	TJ814				3900			RNAV1
TF	ELKUR				↓4500 ↑4200			RNAV1
TF	OMDEK				@4500			RNAV1
TF	PEGSO				↑4500			RNAV1
RWY34L Departure PEGSO-5TD(by ATC)								
CF	TJ899		340		↑900			RNAV1
TF	TJ811				↑1200	MAX230		RNAV1
TF	TJ812				↑2100			RNAV1
TF	TJ813				↑3600			RNAV1
TF	TJ814				3900			RNAV1
TF	ELKUR				↓4500 ↑4200			RNAV1
TF	OMDEK				@4500			RNAV1
TF	PEGSO				↑4500			RNAV1
RWY34R Departure PEGSO-7TD(by ATC)								
CF	TJ898		340		↑900			RNAV1
TF	TJ811				↑1200	MAX230		RNAV1
TF	TJ812				↑2100			RNAV1
TF	TJ813				↑3600			RNAV1
TF	TJ814				3900			RNAV1
TF	ELKUR				↓4500 ↑4200			RNAV1
TF	OMDEK				@4500			RNAV1
TF	PEGSO				↑4500			RNAV1
RWY34L Departure ELKUR-5YD								

CA			340		130	MAX205		RNAV1
DF	TJ832			R	900	MAX230		RNAV1
TF	TJ833				1800			RNAV1
TF	TJ834				2100	MAX250		RNAV1
TF	TJ835				↑3600			RNAV1
TF	ELKUR				↓4500 ↑4200			RNAV1
RWY34R Departure ELKUR-7YD								
CA			340		130	MAX205		RNAV1
DF	TJ832			R	900	MAX230		RNAV1
TF	TJ833				1800			RNAV1
TF	TJ834				2100	MAX250		RNAV1
TF	TJ835				↑3600			RNAV1
TF	ELKUR				↓4500 ↑4200			RNAV1
RWY34L Departure OMDEK-5YD								
CA			340		130	MAX205		RNAV1
DF	TJ832			R	900	MAX230		RNAV1
TF	TJ833				1800			RNAV1
TF	TJ834				2100	MAX250		RNAV1
TF	TJ835				↑3600			RNAV1
TF	ELKUR				↓4500 ↑4200			RNAV1
TF	OMDEK				@4500			RNAV1
RWY34R Departure OMDEK-7YD								
CA			340		130	MAX205		RNAV1
DF	TJ832			R	900	MAX230		RNAV1
TF	TJ833				1800			RNAV1

TF	TJ834				2100	MAX250		RNAV1
TF	TJ835				↑3600			RNAV1
TF	ELKUR				↓4500 ↑4200			RNAV1
TF	OMDEK				@4500			RNAV1
RWY34L Departure PEGSO-5YD								
CA			340		130	MAX205		RNAV1
DF	TJ832			R	900	MAX230		RNAV1
TF	TJ833				1800			RNAV1
TF	TJ834				2100	MAX250		RNAV1
TF	TJ835				↑3600			RNAV1
TF	ELKUR				↓4500 ↑4200			RNAV1
TF	OMDEK				@4500			RNAV1
TF	PEGSO				↑4500			RNAV1
RWY34R Departure PEGSO-7YD								
CA			340		130	MAX205		RNAV1
DF	TJ832			R	900	MAX230		RNAV1
TF	TJ833				1800			RNAV1
TF	TJ834				2100	MAX250		RNAV1
TF	TJ835				↑3600			RNAV1
TF	ELKUR				↓4500 ↑4200			RNAV1
TF	OMDEK				@4500			RNAV1
TF	PEGSO				↑4500			RNAV1
RWY34L Departure MUGLO-5ZD								
CF	TJ899		340		↑900			RNAV1
TF	TJ897				1200	MAX230		RNAV1

TF	TJ896				2700			RNAV1
TF	TJ833				2700			RNAV1
TF	MUGLO				↑2700			RNAV1
RWY34R Departure MUGLO-7ZD								
CF	TJ898		340		↑900			RNAV1
TF	TJ897				1200	MAX230		RNAV1
TF	TJ896				2700			RNAV1
TF	TJ833				2700			RNAV1
TF	MUGLO				↑2700			RNAV1
RWY34L Departure IGMOR-5ZD								
CF	TJ899		340		↑900			RNAV1
TF	TJ897				1200	MAX230		RNAV1
TF	TJ896				2700			RNAV1
TF	TJ833				2700			RNAV1
TF	IGMOR				↑3000			RNAV1
RWY34R Departure IGMOR-7ZD								
CF	TJ898		340		↑900			RNAV1
TF	TJ897				1200	MAX230		RNAV1
TF	TJ896				2700			RNAV1
TF	TJ833				2700			RNAV1
TF	IGMOR				↑3000			RNAV1
RWY34L Departure MUGLO-5YD								
CA			340		130	MAX205		RNAV1
DF	TJ832			R	900	MAX230		RNAV1
TF	TJ833				1800			RNAV1
TF	MUGLO				↑2700			RNAV1
RWY34R Departure MUGLO-7YD								

CA			340		130	MAX205		RNAV1
DF	TJ832			R	900	MAX230		RNAV1
TF	TJ833				1800			RNAV1
TF	MUGLO				↑2700			RNAV1
RWY34L Departure IGMOR-5YD								
CA			340		130	MAX205		RNAV1
DF	TJ832			R	900	MAX230		RNAV1
TF	TJ833				1800			RNAV1
TF	IGMOR				↑3000			RNAV1
RWY34R Departure IGMOR-7YD								
CA			340		130	MAX205		RNAV1
DF	TJ832			R	900	MAX230		RNAV1
TF	TJ833				1800			RNAV1
TF	IGMOR				↑3000			RNAV1
RWY16L/16R Arrival GUVBA-4ZA(by ATC)								
IF	GUVBA				6000			RNAV1
TF	TJ980				6000			RNAV1
TF	TJ989				5100			RNAV1
TF	TJ988				4200			RNAV1
TF	TJ987				3600			RNAV1
TF	TJ986				2400			RNAV1
TF	TJ925				1200			RNAV1
TF	TJ924							RNAV1
TF	TJ923							RNAV1
TF	TJ922				1200			RNAV1
TF	TJ921				↑1200			RNAV1
TF	TJ920				↑1200			RNAV1

TF	TJ919				900	MAX205		RNAV1
RWY16L/16R Arrival GUVBA-6ZA(by ATC)								
IF	GUVBA				6000			RNAV1
TF	TJ980				6000			RNAV1
TF	TJ989				5100			RNAV1
TF	TJ988				4200			RNAV1
TF	TJ987				3600			RNAV1
TF	TJ986				2400			RNAV1
TF	TJ925				1200			RNAV1
TF	TJ924							RNAV1
TF	TJ923							RNAV1
TF	TJ922				1200			RNAV1
TF	TJ921				↑1200			RNAV1
TF	TJ920				↑1200			RNAV1
TF	TJ961				900			RNAV1
TF	TJ960				600	MAX205		RNAV1
RWY16L/16R Arrival GUVBA-4YA(by ATC)								
IF	GUVBA				6000			RNAV1
TF	TJ980				6000			RNAV1
TF	TJ989				5100			RNAV1
TF	TJ988				4200			RNAV1
TF	TJ987				3600			RNAV1
TF	TJ962				2400			RNAV1
TF	TJ963				1800	MAX250		RNAV1
TF	TJ964							RNAV1
TF	TJ945							RNAV1
TF	TJ944				1800			RNAV1

TF	TJ923				1200			RNAV1
TF	TJ922				1200			RNAV1
TF	TJ921				↑1200			RNAV1
TF	TJ920				↑1200			RNAV1
TF	TJ919				900	MAX205		RNAV1
RWY16L/16R Arrival GUVBA-6YA								
IF	GUVBA				6000			RNAV1
TF	TJ980				6000			RNAV1
TF	TJ989				5100			RNAV1
TF	TJ988				4200			RNAV1
TF	TJ987				3600			RNAV1
TF	TJ962				2400			RNAV1
TF	TJ963				1800	MAX250		RNAV1
TF	TJ964							RNAV1
TF	TJ945							RNAV1
TF	TJ944				1800			RNAV1
TF	TJ923				1200			RNAV1
TF	TJ922				1200			RNAV1
TF	TJ921				↑1200			RNAV1
TF	TJ920				↑1200			RNAV1
TF	TJ961				900			RNAV1
TF	TJ960				600	MAX205		RNAV1
RWY16L/16R Arrival AVBOX-4ZA(by ATC)								
IF	AVBOX				2700			RNAV1
TF	TJ927				1800			RNAV1
TF	TJ926				1500			RNAV1
TF	TJ925				1200			RNAV1

TF	TJ924							RNAV1
TF	TJ923							RNAV1
TF	TJ922				1200			RNAV1
TF	TJ921				↑1200			RNAV1
TF	TJ920				↑1200			RNAV1
TF	TJ919				900	MAX205		RNAV1
RWY16L/16R Arrival AVBOX-6ZA								
IF	AVBOX				2700			RNAV1
TF	TJ927				1800			RNAV1
TF	TJ926				1500			RNAV1
TF	TJ925				1200			RNAV1
TF	TJ924							RNAV1
TF	TJ923							RNAV1
TF	TJ922				1200			RNAV1
TF	TJ921				↑1200			RNAV1
TF	TJ920				↑1200			RNAV1
TF	TJ961				900			RNAV1
TF	TJ960				600	MAX205		RNAV1
RWY16L/16R Arrival DUMAP-4ZA(by ATC)								
IF	DUMAP				2400			RNAV1
TF	TJ945				1800			RNAV1
TF	TJ944				1800			RNAV1
TF	TJ923				1200			RNAV1
TF	TJ922				1200			RNAV1
TF	TJ921				↑1200			RNAV1
TF	TJ920				↑1200			RNAV1
TF	TJ919				900	MAX205		RNAV1

RWY16L/16R Arrival DUMAP-6ZA(by ATC)								
IF	DUMAP				2400			RNAV1
TF	TJ964				1800			RNAV1
TF	TJ963				1800			RNAV1
TF	TJ962				1200			RNAV1
TF	TJ961				900			RNAV1
TF	TJ960				600	MAX205		RNAV1
RWY16L/16R Arrival DUMAP-6YA								
IF	DUMAP				2400			RNAV1
TF	TJ945				1800			RNAV1
TF	TJ944				1800			RNAV1
TF	TJ923				1200			RNAV1
TF	TJ922				1200			RNAV1
TF	TJ921				↑1200			RNAV1
TF	TJ920				↑1200			RNAV1
TF	TJ961				900			RNAV1
TF	TJ960				600	MAX205		RNAV1
RWY34L Arrival GUVBA-5ZA(by ATC)								
IF	GUVBA				6000			RNAV1
TF	TJ869				6000			RNAV1
TF	TJ868				5100			RNAV1
TF	TJ867				4200			RNAV1
TF	TJ866				↑3600			RNAV1
TF	TJ884				2400			RNAV1
TF	TJ823				1200			RNAV1
TF	TJ822				900			RNAV1
TF	TJ821							RNAV1

TF	TJ820				900	MAX205		RNAV1
RWY34R Arrival GUVBA-7ZA(by ATC)								
IF	GUVBA				6000			RNAV1
TF	TJ869				6000			RNAV1
TF	TJ868				5100			RNAV1
TF	TJ867				4200			RNAV1
TF	TJ866				↑3600			RNAV1
TF	TJ884				2400			RNAV1
TF	TJ823				1200			RNAV1
TF	TJ822				900			RNAV1
TF	TJ821							RNAV1
TF	TJ830				900	MAX205		RNAV1
RWY34L Arrival GUVBA-5YA								
IF	GUVBA				6000			RNAV1
TF	TJ869				6000			RNAV1
TF	TJ868				5100			RNAV1
TF	TJ867				4200			RNAV1
TF	TJ866				↑3600			RNAV1
TF	TJ865				↑3000			RNAV1
TF	TJ864				2400			RNAV1
TF	TJ863				2100	MAX230		RNAV1
TF	TJ862				1800			RNAV1
TF	TJ841				1500			RNAV1
TF	TJ840				900			RNAV1
TF	TJ820				900	MAX205		RNAV1
RWY34R Arrival GUVBA-7YA								
IF	GUVBA				6000			RNAV1

TF	TJ869				6000			RNAV1
TF	TJ868				5100			RNAV1
TF	TJ867				4200			RNAV1
TF	TJ866				↑3600			RNAV1
TF	TJ865				↑3000			RNAV1
TF	TJ864				2400			RNAV1
TF	TJ863				2100	MAX230		RNAV1
TF	TJ862				1800			RNAV1
TF	TJ841				1500			RNAV1
TF	TJ840				900	MAX205		RNAV1
RWY34L Arrival AVBOX-5ZA								
IF	AVBOX				2700			RNAV1
TF	TJ824				1500			RNAV1
TF	TJ823				1200			RNAV1
TF	TJ822				900			RNAV1
TF	TJ821							RNAV1
TF	TJ820				900	MAX205		RNAV1
RWY34R Arrival AVBOX-7ZA								
IF	AVBOX				2700			RNAV1
TF	TJ824				1500			RNAV1
TF	TJ823				1200			RNAV1
TF	TJ822				900			RNAV1
TF	TJ821							RNAV1
TF	TJ830				900	MAX205		RNAV1
RWY34L Arrival DUMAP-5ZA								
IF	DUMAP				2400			RNAV1
TF	TJ862				1800			RNAV1

TF	TJ841				1500			RNAV1
TF	TJ820				900	MAX205		RNAV1
RWY34R Arrival DUMAP-7ZA								
IF	DUMAP				2400			RNAV1
TF	TJ862				1800			RNAV1
TF	TJ841				1500			RNAV1
TF	TJ840				900	MAX205		RNAV1
RWY16L/R Approach Holding (Outbound distance:10km)								
HM	TJ944	Y	295	R	1200			RNAV1
RWY34L/R Approach Holding (Outbound distance:10km)								
HM	TJ841	Y	304	R	1200			RNAV1
RWY16L Approach Transition (From TJ919)								
IF	TJ919				900	MAX205		RNAV1
TF	TJ954				600			RNAV1
RWY16L Approach Transition (From TJ960)								
IF	TJ960				600	MAX205		RNAV1
TF	TJ954				600			RNAV1
RWY16L Missed Approach								
VA			160		200			RNAV1
DF	TJ962			L	600			RNAV1
TF	TJ963				1200	MAX205		RNAV1
RWY16R Approach Transition (From TJ919)								
IF	TJ919				900	MAX205		RNAV1
TF	TJ953				600			RNAV1
RWY16R Approach Transition (From TJ960)								
IF	TJ960				600	MAX205		RNAV1
TF	TJ953				600			RNAV1

RWY16R Missed Approach								
VA			160		200			RNAV1
DF	TJ962			L	600			RNAV1
TF	TJ963				1200	MAX205		RNAV1
RWY16L/R Missed Approach Holding (Outbound distance:10km)								
HM	TJ963	Y	100	R	1200	MAX230		RNAV1
RWY34L Approach Transition (From TJ820)								
IF	TJ820				900	MAX205		RNAV1
TF	TJ817				600			RNAV1
RWY34L Missed Approach								
VA			340		200			RNAV1
DF	TJ832			R	600			RNAV1
TF	TJ864				1200	MAX205		RNAV1
RWY34R Approach Transition (From TJ840)								
IF	TJ840				900	MAX205		RNAV1
TF	TJ827				600			RNAV1
RWY34R Approach Transition (From TJ830)								
IF	TJ830				900	MAX205		RNAV1
TF	TJ827				600			RNAV1
RWY34R Missed Approach								
VA			340		200			RNAV1
DF	TJ832			R	600			RNAV1
TF	TJ864				1200	MAX205		RNAV1
RWY34L/R Missed Approach Holding (Outbound distance:10km)								
HM	TJ864	Y	100	R	1200	MAX230		RNAV1

ZBTJ AD 2.23 其它资料

全年有鸟类活动，并以南北下滑处最为频繁。机场当局在飞行区内采取了驱赶措施，以减少鸟群活动。春季迁徙期主要集中在 3-5 月，秋季迁徙期主要集中在 9-11 月。

ZBTJ AD 2.23 Other information

Activities of bird flocks are found all the year round,especially near by North and South glide path. Aerodrome Authority resorts to dispersal methods to reduce bird activities. The spring migration period is mainly from March to May, the autumn migration period is mainly from September to November.