AD 2 AERODROMES

RJCJ AD 2.1 AERODROME LOCATION INDICATOR AND NAME

RJCJ - CHITOSE

RJCJ AD 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA

1	ARP coordinates and site at AD	*424740N 1413959E*
2	Direction and distance from (city)	21nm SE Sapporo
3	Elevation/ Reference temperature	89ft / -
4	Geoid undulation at AD ELEV PSN	Nil
5	MAG VAR/ Annual change	9°W(2006) / -
6	AD Administration, address, telephone, telefax, telex, AFS, e-mail and/or Web-site addresses	JSDF-A Public AD
7	Types of traffic permitted (IFR/VFR)	IFR/VFR
8	Remarks	Nil

RJCJ AD 2.3 OPERATIONAL HOURS

1	AD Administration	H24
2	Customs and immigration	Nil
3	Health and sanitation	Nil
4	AIS Briefing Office	H24
5	ATS Reporting Office(ARO)	Nil
6	MET Briefing Office	Nil
7	ATS	H24
8	Fuelling	Nil
9	Handling	Nil
10	Security	Nil
11	De-icing	Nil
12	Remarks	Nil

RJCJ AD 2.4 HANDLING SERVICES AND FACILITIES

1	Cargo-handling facilities	Nil
2	Fuel/ oil types	JET A-1, JET A-1 PLUS
3	Fuelling facilities/ capacity	To be issued later
4	De-icing facilities	Nil
5	Hangar space for visiting aircraft	Nil
6	Repair facilities for visiting aircraft	Nil
7	Remarks	Nil

RJCJ AD 2.5 PASSENGER FACILITIES

1	Hotels	Nil
2	Restaurants	Nil
3	Transportation	Nil
4	Medical facilities	Nil
5	Bank and Post Office	Nil
6	Tourist Office	Nil
7	Remarks	Nil

RJCJ AD 2.6 RESCUE AND FIRE FIGHTING SERVICES

1	AD category for fire fighting	Nil
2	Rescue equipment	Nil
3	Capability for removal of disabled aircraft	Nil
4	Remarks	Nil

RJCJ AD 2.7 SEASONAL AVAILABILITY-CLEARING

1	Types of clearing equipment	Nil
2	Clearance priorities	Nil
3	Remarks	Nil

RJCJ AD 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS DATA

1	Apron surface and strength	To be issued later
2	Taxiway width, surface and strength	To be issued later
3	ACL and elevation	Nil
4	VOR checkpoints	Nil
5	INS checkpoints	Nil
6	Remarks	Nil

RJCJ AD 2.9 SURFACE MOVEMENT GUIDANCE AND CONTROL SYSTEM AND MARKINGS

1	Use of aircraft stand ID signs, TWY guide lines and Visual docking/ parking guidance system of aircraft stands	Nil
2	RWY and TWY markings and LGT	RWY: (LGT): REDL,RTHL, RWY DIST marker LGT, TKOF aiming LGT TWY: (LGT): TWY edge LGT
3	Stop bars	Nil
4	Remarks	Nil

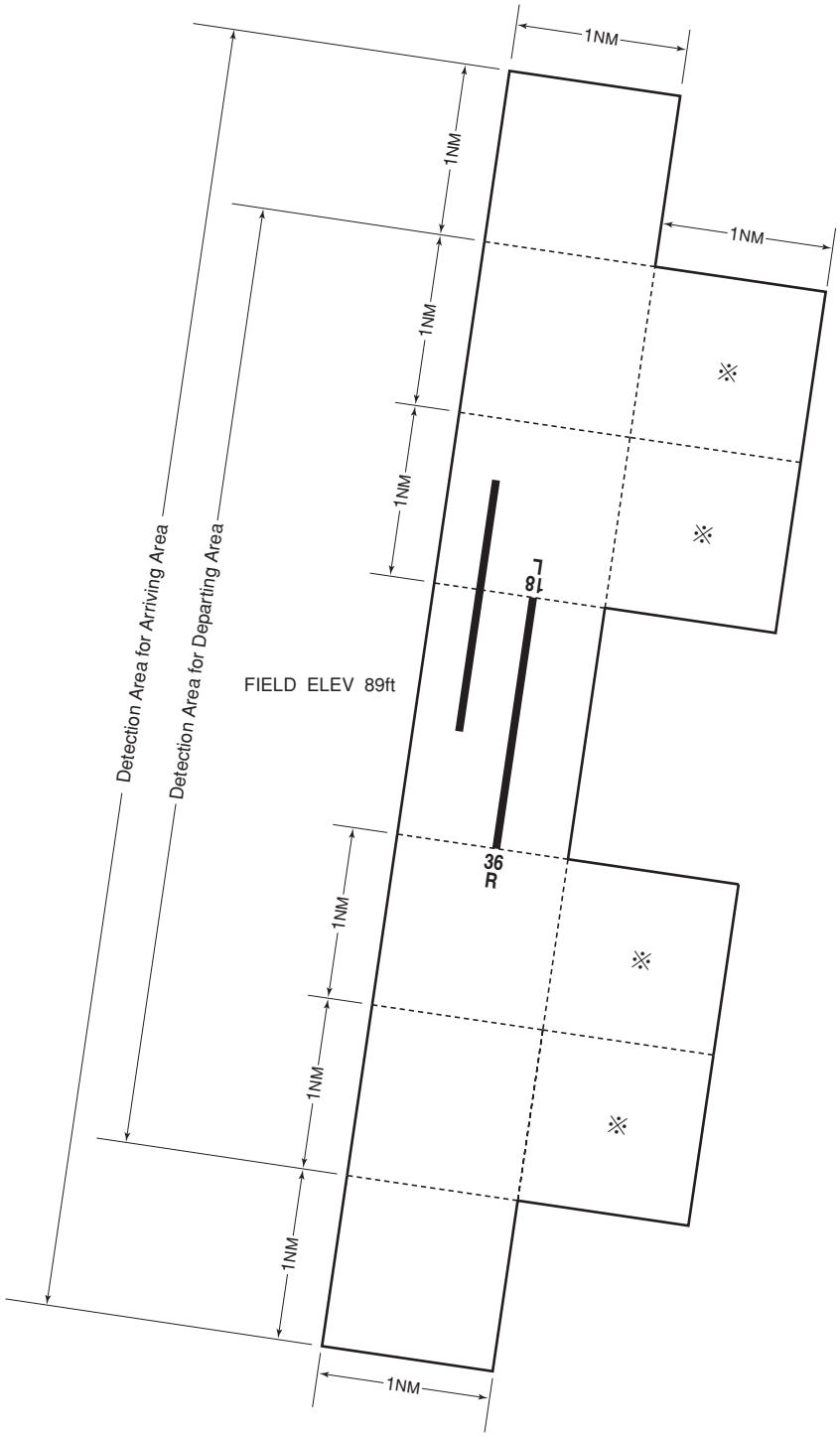
RJCJ AD 2.10 AERODROME OBSTACLES

RWY/Area affected	Obstacle type	Coordinates	Elevation	Markings/ LGT	Remarks
Nil					

RJCJ AD 2.11 METEOROLOGICAL INFORMATION PROVIDED

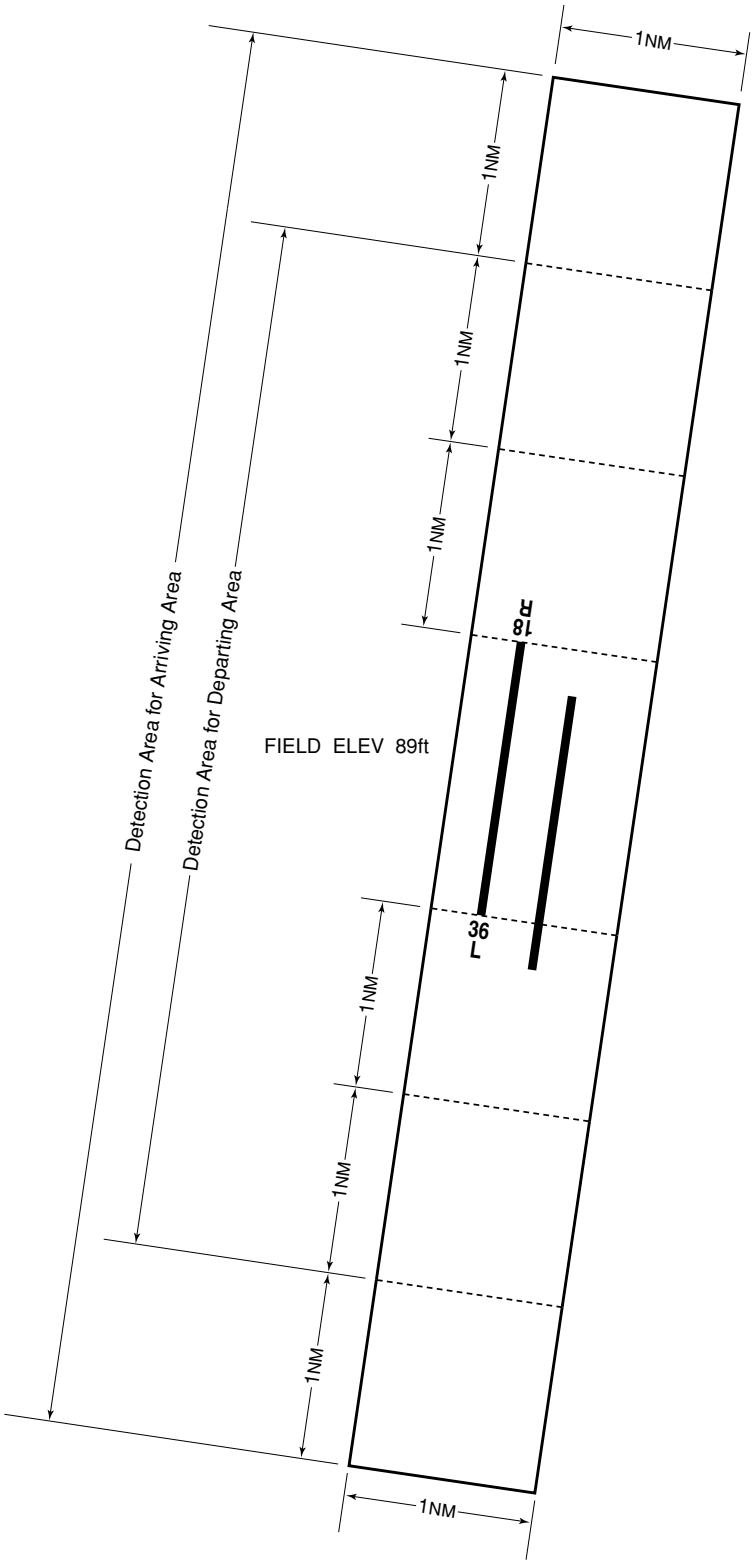
1	Associated MET Office	CHITOSE
2	Hours of service MET Office outside hours	Nil
3	Office responsible for TAF preparation Periods of validity	Nil
4	Trend forecast Interval of issuance	Nil
5	Briefing/ consultation provided	Nil
6	Flight documentation Language(s) used	Nil
7	Charts and other information available for briefing or consultation	Nil
8	Supplementary equipment available for providing information	Doppler Radar for Airport Weather (See below figure)
9	ATS units provided with information	Nil
10	Additional information (limitation of service, etc.)	Observation is made by the Japan Defence Agency.

Airspace for the advisory service concerning low level wind shear (RWY18L/36R)



UPPER LIMIT : 1600ft above FIELD ELEV LEVEL
LOWER LIMIT : FIELD ELEV LEVEL
※Only for Departing Aircraft

Airspace for the advisory service concerning low level wind shear (RWY18R/36L)



UPPER LIMIT : 1600ft above FIELD ELEV LEVEL
LOWER LIMIT : FIELD ELEV LEVEL

RJCJ AD 2.12 RUNWAY PHYSICAL CHARACTERISTICS

Designations RWY NR	TRUE BRG	Dimensions of RWY(M)	Strength(PCN) and surface of RWY	THR coordinates THR geoid undulation	THR elevation and highest elevation of TDZ of precision APP RWY
1	2	3	4	5	6
18L 36R	To be issued later	3000×60 3000×60	PCN 62/R/B/X/T SW61000kg (134500lbs) DW87000kg (191800lbs) DTW202000kg (445400lbs) Concrete	Nil Nil	THR ELEV : 70ft THR ELEV : 85ft
18R 36L	To be issued later	2700×45 2700×45	PCN 65/F/A/W/T SW20000kg (44100lbs) DW25000kg (55100lbs) Asphalt Concrete	Nil Nil	THR ELEV : 65ft THR ELEV : 87ft

Slope of RWY	Strip Dimensions(M)	Remarks
7	10	12
See AD 2.24 AD Chart	3600×300 3600×300 3300×450 3300×450	Nil

RJCJ AD 2.13 DECLARED DISTANCES

RWY Designator	TORA (m)	TODA (m)	ASDA (m)	LDA (m)	Remarks
1	2	3	4	5	6

RJCJ AD 2.14 APPROACH AND RUNWAY LIGHTING

RWY Designator	APCH LGT type LEN INTST	RTHL Color WBAR	PAPI (VASIS) Angle DIST FM THR MEHT	RTZL LEN	RCLL LEN Spacing Color INTST	REDL LEN Spacing Color INTST	RENL Color WBAR	STWL LEN Color
1	2	3	4	5	6	7	8	9
18L	AVBL		PAPI 2.7°/Left 382.6m 52ft					
36R	AVBL		PAPI 2.7°/Left 376.5m 52ft					
18R			PAPI 2.7°/Left 379.8m 58ft					
36L			PAPI 2.7°/Left 379.5m 50ft					
Remarks								
10								
Overrun area edge LGT								

RJCJ AD 2.15 OTHER LIGHTING, SECONDARY POWER SUPPLY

1	ABN/IBN location, characteristics and hours of operation	ABN: *424833N/1413915E*, White/Green EV10sec, HO
2	LDI location and LGT Anemometer location and LGT	LDI: LGTD
3	TWY edge and center line lighting	To be developed
4	Secondary power supply/ switch-over time	Nil
5	Remarks	WDI LGT, OBST LGT

RJCJ AD 2.16 HELICOPTER LANDING AREA

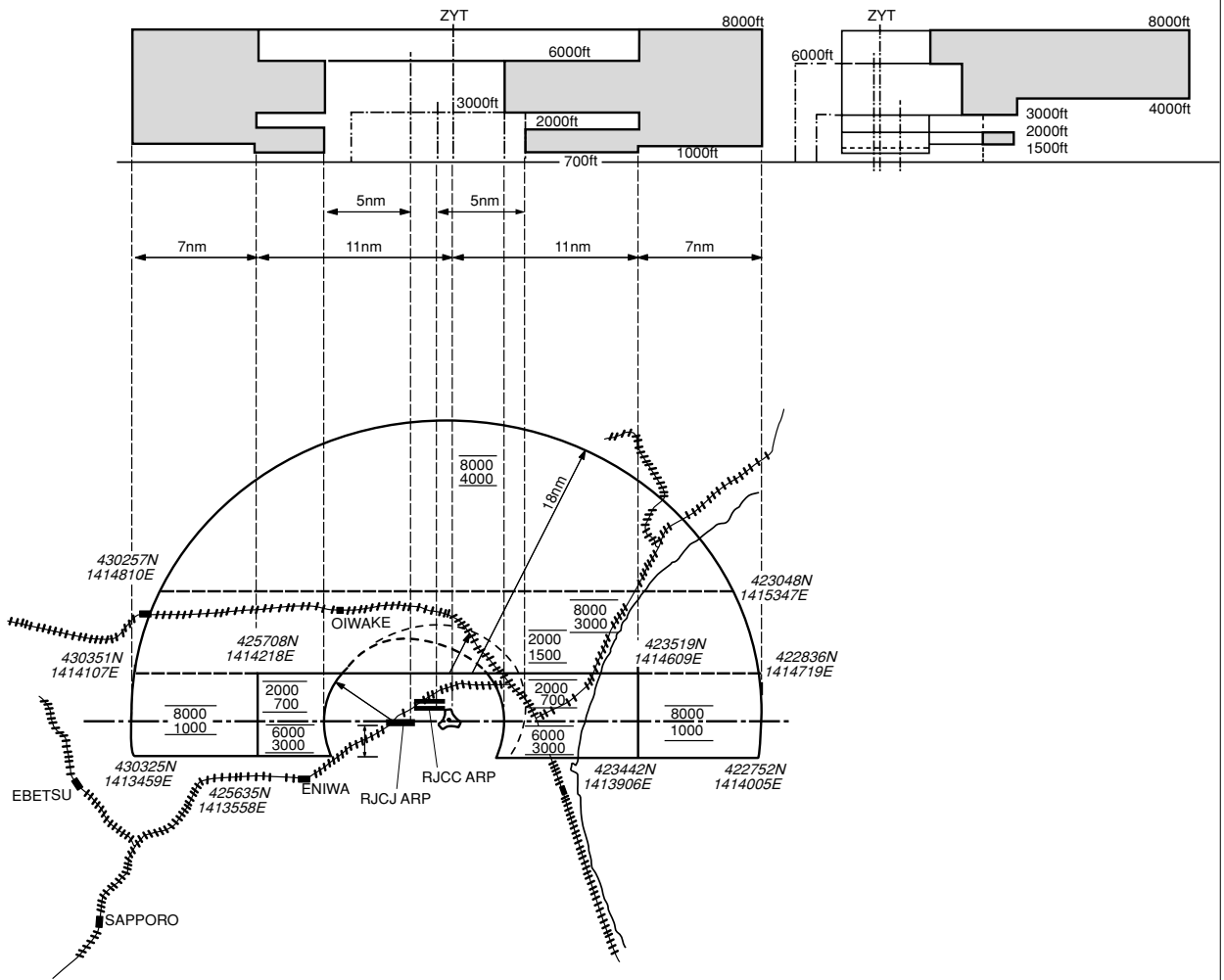
To be issued later

RJCJ AD 2.17 ATS AIRSPACE

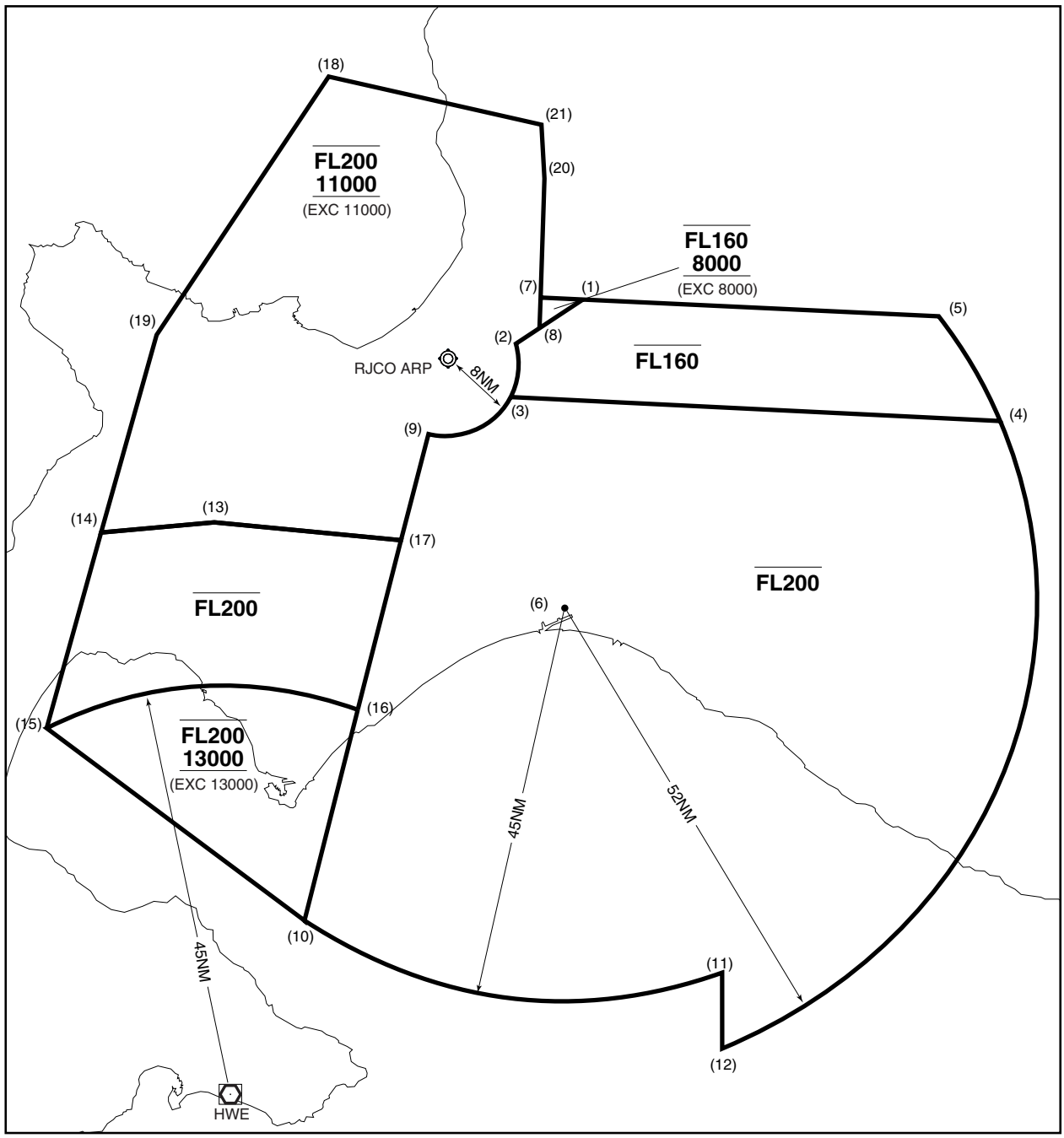
Designation and lateral limits		Vertical limits (ft)	Airspace classification	ATS unit call sign Language	Remarks
1		2	3	4	6
CHITOSE CTR	(1)Area within a radius of 5nm of CHITOSE ARP (*42°48'N/141°40'E*) (2)Area within a radius of 5nm of New CHITOSE ARP (*42°47'N/141°42'E*)	6000 or below 3000 or below	D	CHITOSE TOWER En	
CHITOSE PCA	See RJCJ attached chart		E		
CHITOSE ACA	See RJCJ attached chart		E		
CHITOSE TCA	See RJCJ Attached Chart		E		

千歳特別管制区
Chitose Positive Control Area

NAME	LATERAL LIMITS	UPPER LIMIT (AMSL) / LOWER LIMIT (AMSL) M(ft)	UNIT PROVIDING SERVICE	REMARKS
1	2	3	4	5
千歳 Chitose	下記に示される区域 The area shown below	2450 (8000) 200 (700)	Primary Chitose APP 120.1MHz 362.3MHz Secondary Chitose TWR 118.8MHz 126.2MHz 236.8MHz	当該空域を飛行しようとする航空機は、千歳アプローチ又は千歳タワーに連絡し、コールサイン、現在位置、高度及び意図を通報し指示を受けること。 Pilot of aircraft operating in this area shall contact Chitose Approach or Chitose Tower for ATC instructions giving informations on aircraft identification, positions, altitude and pilot's intentions.



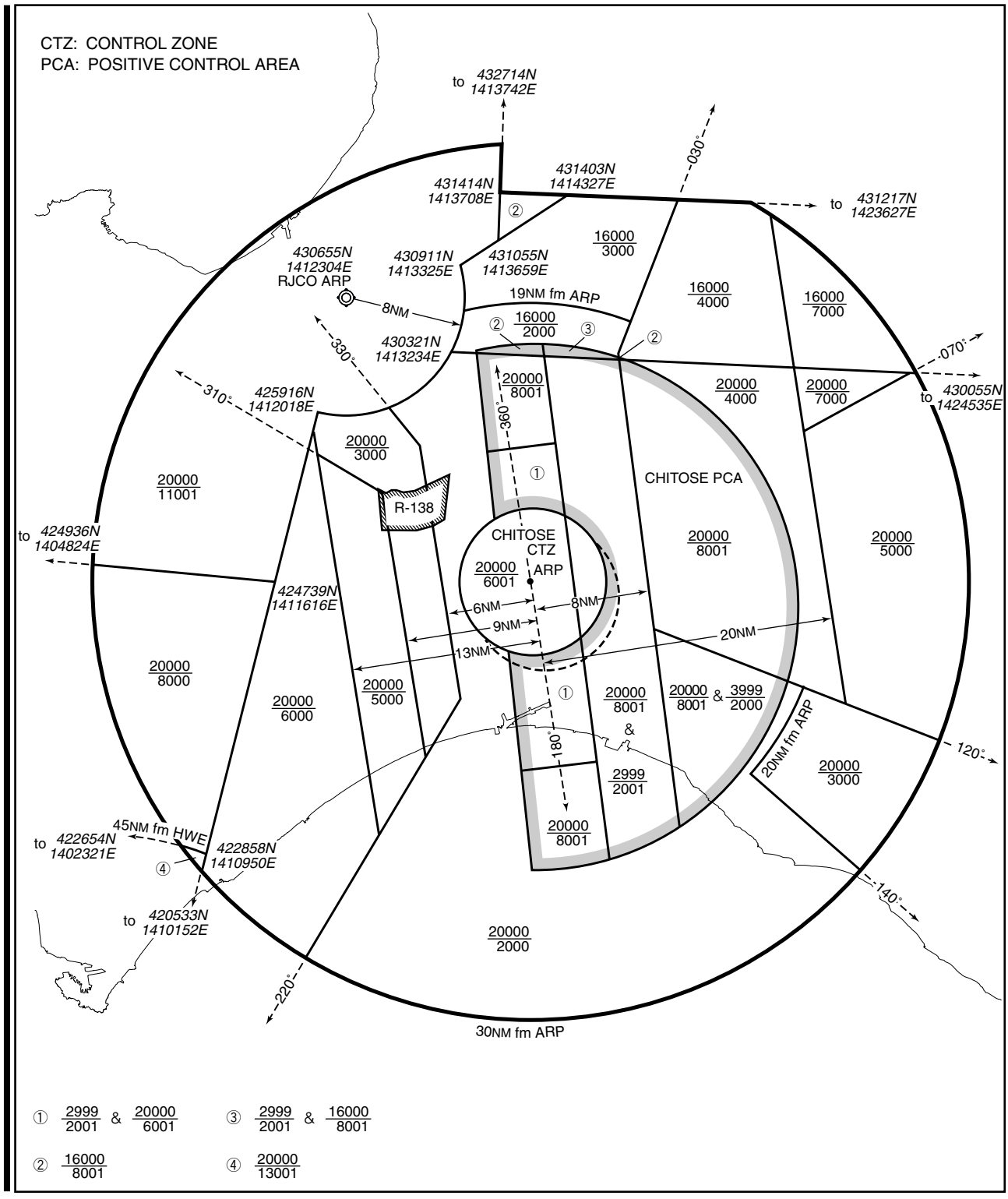
千歳進入管制区
Chitose Approach Control Area



Point list

(1) *431403N 1414327E*
(2) *430911N 1413325E*
(3) *430321N 1413234E*
(4) *430055N 1424535E*
(5) *431217N 1423627E*
(6) *424008N 1414046E*
(7) *431414N 1413708E*
(8) *431055N 1413659E*
(9) *425916N 1412018E*
(10) *420533N 1410152E*
(11) *415823N 1420331E*
(12) *415105N 1420410E*
(13) *424936N 1404824E*
(14) *424829N 1403130E*
(15) *422654N 1402321E*
(16) *422858N 1410950E*
(17) *424739N 1411616E*
(18) *433818N 1410529E*
(19) *431009N 1403947E*
(20) *432714N 1413742E*
(21) *433305N 1413715E*

千歳ターミナルコントロールエリア
Chitose Terminal Control Area

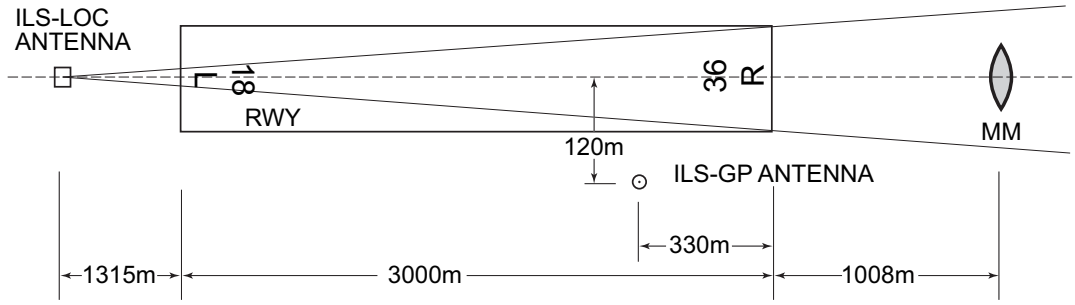


RJCJ AD 2.18 ATS COMMUNICATION FACILITIES

Service designation	Call sign	Frequency	Hours of operation	Remarks
1	2	3	4	5
APP/ASR	Chitose Approach/ Chitose Radar	362.3MHz(1) 120.1MHz(1) 305.7MHz(2) 124.7MHz(2) 243.0MHz(E) 121.5MHz(E)	H24	(1) Primary (2) Secondary
DEP	Chitose Depature	305.7MHz 124.7MHz	H24	
TCA	Chitose TCA	127.7MHz 256.1MHz	2300 - 1100 MON-FRI	
TWR	Chitose Tower	236.8MHz(1) 118.2MHz(1) 304.5MHz(2) 126.2MHz(2) 138.05MHz 247.0MHz(3)(4) 123.1MHz(3)(4) 243.0MHz(E) 121.5MHz(E)	H24	(1) Primary (2) Secondary (3) For rescue only. (4) AVBL on request.
GND	Chitose Ground	275.8MHz 121.7MHz	H24	
DLVRY	Chitose Delivery	322.2MHz 121.9MHz	H24	
MET	Chitose Metro	344.6MHz	H24	Pilot Forecaster service
GCA-ASR -PAR	Chitose Radar/ Chitose GCA	261.2MHz 119.1MHz 270.8MHz 119.5MHz 298.8MHz 124.0MHz 299.7MHz 125.3MHz 304.5MHz 131.4MHz 306.2MHz 310.8MHz 321.2MHz 335.6MHz 243.0MHz(E) 121.5MHz(E)	H24	ASR: RWY 18, 36 PAR: RWY 18, 36 Glide path: 2.7° PAR: Maintenance period 0000-0300 SAT in VMC

RJCJ AD 2.19 RADIO NAVIGATION AND LANDING AIDS

Type of aid	ID	Frequency	Hours of operation	Position of transmitting antenna coordinates	Elevation of DME transmitting antenna	Remarks
1	2	3	4	5	6	7
VOR	CHE	116.9MHz	H24	*424159.65N/ 1414110.20E*		
DME	CHE	1203MHz (CH-116X)	H24	*424159.65N/ 1414110.20E*	88ft	
TACAN	ZYT	990MHz (CH-29X)	H24	*424552N/1414025E*		
ILS-LOC 36R	ICB	110.3MHz	H24	*424850N/1413955E*		
ILS-GP 36R	-	335.0MHz	H24	*424641N/1414012E*		
ILS-MM 36R	-	75.0MHz	H24	*424558N/1414026E*		



REMARKS: 1.LOC Beam BRG(MAG) 002°
2.HGT of ILS REF datum 14.7m(48ft)
3.GP angle 2.7°

RJCJ AD 2.20 LOCAL TRAFFIC REGULATIONS

1. Airport regulations

Nil

2. Taxiing to and from stands

Nil

3. Parking area for small aircraft(General aviation)

Nil

4. Parking area for helicopters

Nil

5. Apron - taxiing during winter conditions

Nil

6. Taxiing - limitations

Nil

7. School and training flights - technical test flights - use of runways

Nil

8. Helicopter traffic - limitation

Nil

9. Removal of disabled aircraft from runways

Nil

RJCJ AD 2.21 NOISE ABATEMENT PROCEDURES

Nil

RJCJ AD 2.22 FLIGHT PROCEDURES

1. TAKE OFF MINIMA

	RWY	REDL AVBL		REDL OUT	
		CEIL-RVR	CEIL-VIS	CEIL-RVR	CEIL-VIS
TKOF ALTN AP FILED	18R	-	0′-600m	-	0′-800m
	36L	-	0′-600m	-	0′-800m
	18L	0′-600m	0′-600m	-	0′-800m
	36R	0′-600m	0′-600m	-	0′-800m
OTHER	18R	AVBL LDG MINIMA			
	36L				
	18L				
	36R				

NOTE: SIDs are designed in accordance with provisional standards for FLIGHT PROCEDURE DESIGN.

2. Lost communication procedures for arrival aircraft under radar navigational guidance

If radio communications with CHITOSE Radar are lost for 1 minute in the pattern or 5 seconds (PAR)/15 seconds (ASR) on final approach, squawk Mode A/3 Code 7600 and;

(I) 1. Contact CHITOSE Radar/Tower.
2. If unable, proceed in accordance with visual flight rules.
3. If unable,
a. proceed to ABIRA IAF at last assigned altitude or 6,000 feet whichever is higher, and execute TACAN NR.4/TACAN NR.5 approach, as appropriate.
b. proceed to CHITOSE VOR/DME at last assigned altitude or 7,000 feet whichever is higher, and execute VOR or VOR/DME approach, as appropriate.

(II) Procedures other than above will be issued when situation required.

3. Automated Radar Terminal System (ARTS)

When instructed by ATC, aircraft flying in and out of Chitose approach control area in principle will reply on 4096 Code (Mode A/3) with automatic altitude reporting capability (Mode C); Aircraft not equipped with the said transponder shall report ATC to that effect.

4. WX MINIMA CONCERNING PAR/ASR APCH PROCEDURE FOR CIVIL ACFT

PAR RWY18L

MINIMA	THR elev. 70		AD elev. 89	
CAT			CIRCLING	
	DA(H)	RVR/CMV	MDA(H)	VIS
A	299(229)	750	700(611)	1600
B				
C				2400
D				3200

Simultaneous approach authorized with RJCC RWY19L(ILS) or RWY19R(ILS)

PAR RWY18R

MINIMA	THR elev. 65		AD elev. 89	
CAT			CIRCLING	
	DA(H)	CMV	MDA(H)	VIS
A	276(211)	1000	700(611)	1600
B				
C				2400
D				3200

Simultaneous approach authorized with RJCC RWY19L(ILS) or RWY19R(ILS)

PAR RWY36L

MINIMA	THR elev. 87		AD elev. 89	
CAT			CIRCLING	
	DA(H)	CMV	MDA(H)	VIS
A	287(200)	1000	700(611)	1600
B				
C				2400
D				3200

Simultaneous approach authorized with RJCC RWY01L(ILS) or RWY01R(ILS)

PAR RWY36R

MINIMA	THR elev. 85		AD elev. 89	
CAT			CIRCLING	
	DA(H)	RVR/CMV	MDA(H)	VIS
A	287(202)	750	700(611)	1600
B				
C				2400
D				3200

Simultaneous approach authorized with RJCC RWY01L(ILS) or RWY01R(ILS)

ASR RWY18L

MINIMA	THR elev. 70		AD elev. 89	
CAT			CIRCLING	
	MDA(H)	RVR/CMV	MDA(H)	VIS
A	700(630)	1000	700(611)	1600
B		1200		
C				2400
D		1600		3200

ASR RWY18R

MINIMA	THR elev. 65		AD elev. 89	
CAT			CIRCLING	
	MDA(H)	CMV	MDA(H)	VIS
A	700(635)	1500	700(611)	1600
B				
C		2000		2400
D				3200

ASR RWY36L

MINIMA	THR elev. 87		AD elev. 89	
CAT			CIRCLING	
	MDA(H)	CMV	MDA(H)	VIS
A	700(611)	1500	700(611)	1600
B				
C		2000		2400
D				3200

ASR RWY36R

MINIMA	THR elev. 85		AD elev. 89	
CAT			CIRCLING	
	MDA(H)	RVR/CMV	MDA(H)	VIS
A	700(611)	1000	700(611)	1600
B		1200		
C				2400
D		1600		3200

5. WX MINIMA CONCERNING PAR/ASR APCH PROCEDURE FOR JSDF ACFT

PAR RWY18L

MINIMA	THR elev. 70		AD elev. 89	
CAT			CIRCLING	
	DA(H)	RVR/CMV	MDA(H)	VIS
A	200(130)	750	700(611)	1600
B				
C				2400
D				3200

Simultaneous approach authorized with RJCC RWY19L(ILS) or RWY19R(ILS)

PAR RWY18R

MINIMA	THR elev. 65		AD elev. 89	
CAT			CIRCLING	
	DA(H)	CMV	MDA(H)	VIS
A	200(135)	1000	700(611)	1600
B				
C				2400
D				3200

Simultaneous approach authorized with RJCC RWY19L(ILS) or RWY19R(ILS)

PAR RWY36L

MINIMA	THR elev. 87		AD elev. 89	
CAT			CIRCLING	
	DA(H)	CMV	MDA(H)	VIS
A	200(113)	1000	700(611)	1600
B				
C				2400
D				3200

Simultaneous approach authorized with RJCC RWY01L(ILS) or RWY01R(ILS)

PAR RWY36R

MINIMA	THR elev. 85		AD elev. 89	
CAT			CIRCLING	
	DA(H)	RVR/CMV	MDA(H)	VIS
A	212(127)	750	700(611)	1600
B				
C				2400
D				3200

Simultaneous approach authorized with RJCC RWY01L(ILS) or RWY01R(ILS)

ASR RWY18L

MINIMA	THR elev. 70		AD elev. 89	
CAT			CIRCLING	
	MDA(H)	RVR/CMV	MDA(H)	VIS
A	700(630)	1000	700(611)	1600
B		1200		
C				2400
D		1600		3200

ASR RWY18R

MINIMA	THR elev. 65		AD elev. 89	
CAT			CIRCLING	
	MDA(H)	CMV	MDA(H)	VIS
A	700(635)	1500	700(611)	1600
B				
C		2000		2400
D				3200

ASR RWY36L

MINIMA	THR elev. 87		AD elev. 89	
CAT			CIRCLING	
	MDA(H)	CMV	MDA(H)	VIS
A	700(611)	1500	700(611)	1600
B				
C		2000		2400
D				3200

ASR RWY36R

MINIMA	THR elev. 85		AD elev. 89	
CAT			CIRCLING	
	MDA(H)	RVR/CMV	MDA(H)	VIS
A	700(611)	1000	700(611)	1600
B		1200		
C				2400
D		1600		3200

RJCJ AD 2.23 ADDITIONAL INFORMATION

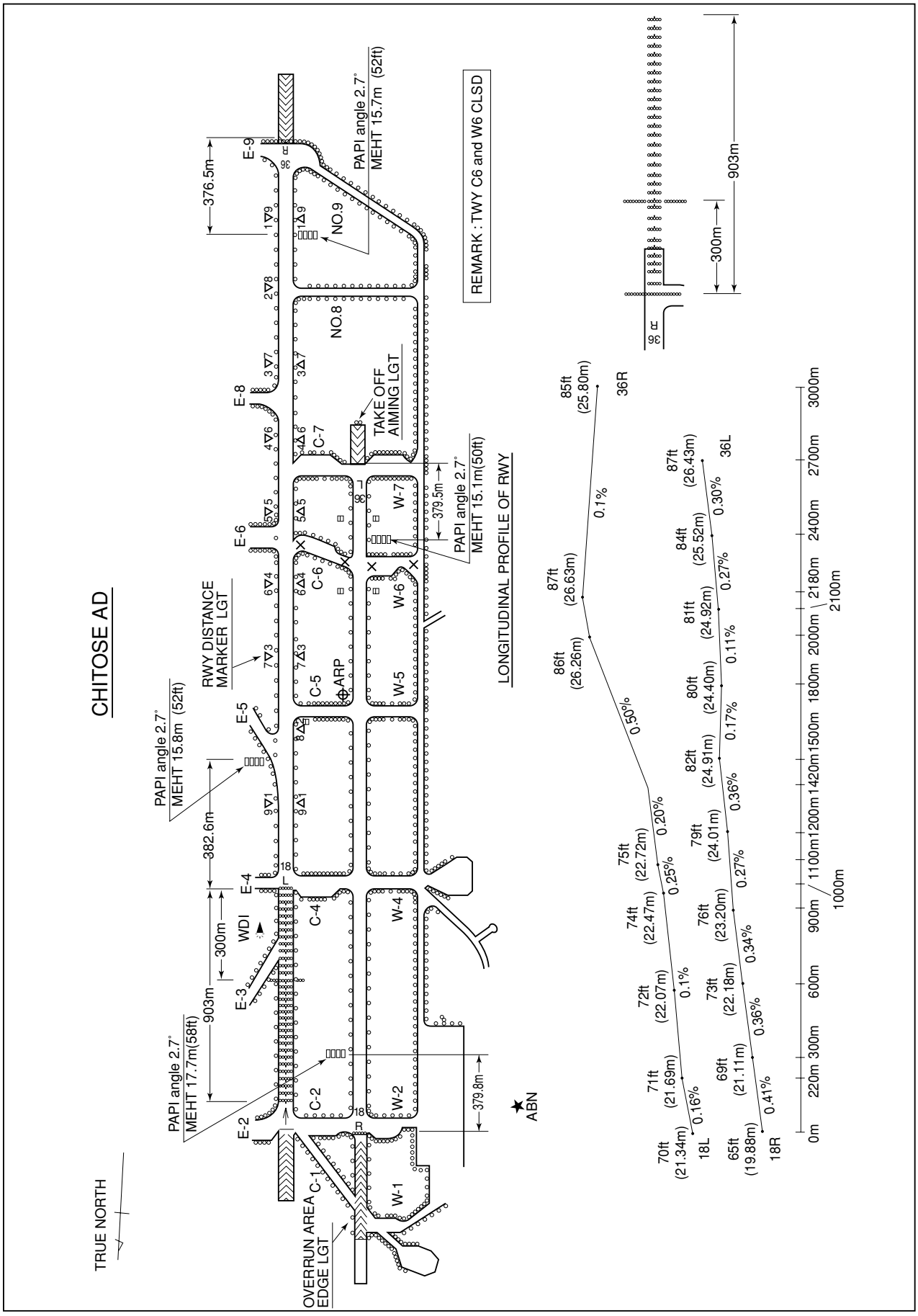
Nil

RJCJ AD 2.24 CHARTS RELATED TO AN AERODROME

Figure-01 Aerodrome/Heliport Chart
Figure-07 Standard Departure Chart - Instrument (TOKACHI)*
Figure-07 Standard Departure Chart - Instrument (TOBBY)*
Figure-07 Standard Departure Chart - Instrument (TEKKO)*
Figure-07 Standard Departure Chart - Instrument (HAKODATE)*
Figure-07 Standard Departure Chart - Instrument (CHITOSE-REVERSAL)*
Figure-07 Standard Departure Chart - Instrument (CHITOSE)*
Figure-07 Standard Departure Chart - Instrument (MUKAWA)*
Figure-07 Standard Departure Chart - Instrument (KURIS)*
Figure-07 Standard Departure Chart - Instrument (SAVIT)*
Figure-07 Standard Departure Chart - Instrument (TRANSITION)
Figure-09 Standard Arrival Chart - Instrument (KOMAI)*
Figure-09 Standard Arrival Chart - Instrument (WAKSA-RNAV)
Figure-10 Instrument Approach Chart (VOR/DME NR1 RWY18L)*
Figure-10 Instrument Approach Chart (VOR/DME NR2 RWY18L)*
Figure-10 Instrument Approach Chart (VOR NR1 RWY36R)*
Figure-10 Instrument Approach Chart (VOR NR2 RWY36R)*
Figure-10 Instrument Approach Chart (ILS RWY36R)*
Figure-10 Instrument Approach Chart (TACAN NR1 ILS RWY36R)*
Figure-10 Instrument Approach Chart (TACAN NR5 ILS RWY36R)*
Figure-10 Instrument Approach Chart (TACAN NR1 RWY36R)*
Figure-10 Instrument Approach Chart (TACAN NR3 RWY18L)*
Figure-10 Instrument Approach Chart (TACAN NR4 RWY18L)*
Figure-10 Instrument Approach Chart (TACAN NR5 RWY36R)*

*: Designed in accordance with provisional standards for FLIGHT PROCEDURE DESIGN.

RJCJ / CHITOSE AD CHART



STANDARD DEPARTURE CHART-INSTRUMENT

RJCJ / CHITOSE SID

TOKACHI ONE DEPARTURE

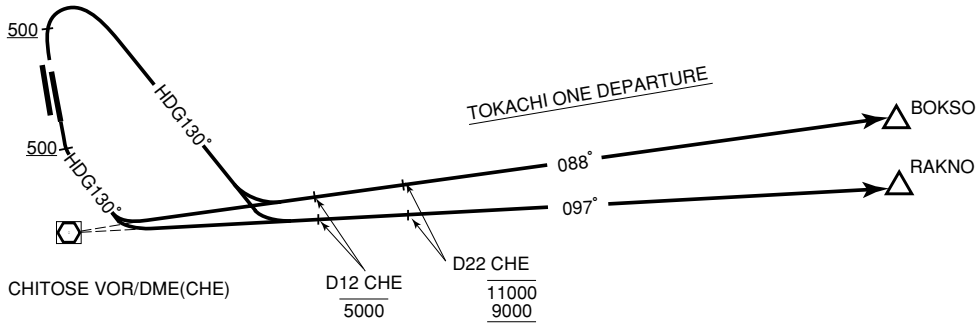
RWY 36R/36L : Climb via RWY HDG to 500ft or above, turn right climb via HDG 130 DEG to intercept and proceed via....

RWY 18R/18L : Climb via RWY HDG to 500ft or above, turn left climb via HDG 130 DEG to intercept and proceed via....

...CHE R-088 to BOKSO or CHE R-097 to RAKNO.

Cross CHE R-088/12DME or CHE R-097/12DME at or below 5,000ft.

Cross CHE R-088/22DME or CHE R-097/22DME between 9,000ft and 11,000ft.



STANDARD DEPARTURE CHART-INSTRUMENT

RJCJ / CHITOSE SID

TOBBY SEVEN DEPARTURE

RWY 36R/36L : Climb via RWY HDG to 500ft or above, turn right to CHE VOR/DME within CHE 10DME (5NM FM RWY end), then via CHE R-185 to TOBBY.

Cross 4DME prior to CHE VOR/DME (MKE R-329) at or above 3,000ft.

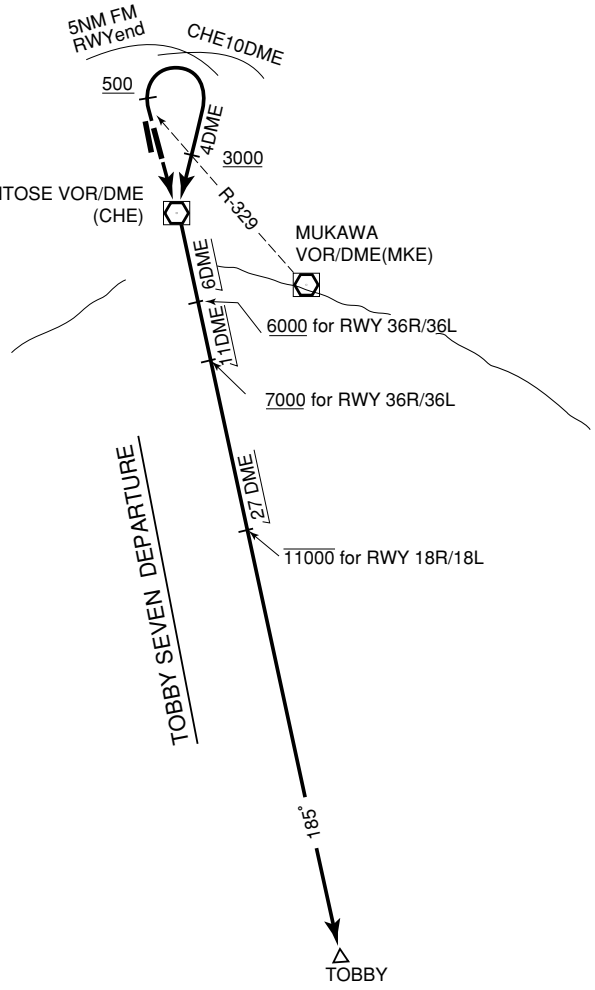
Cross CHE R-185/6DME at or above 6,000ft.

Cross CHE R-185/11DME at or above 7,000ft.

RWY 18R/18L : Climb direct to CHE VOR/DME, then via CHE R-185 to TOBBY.

Cross CHE R-185/27DME at or below 11,000ft.

Note : Aircraft unable to comply with the flight restriction, inform ATC for alternate procedure before departure.



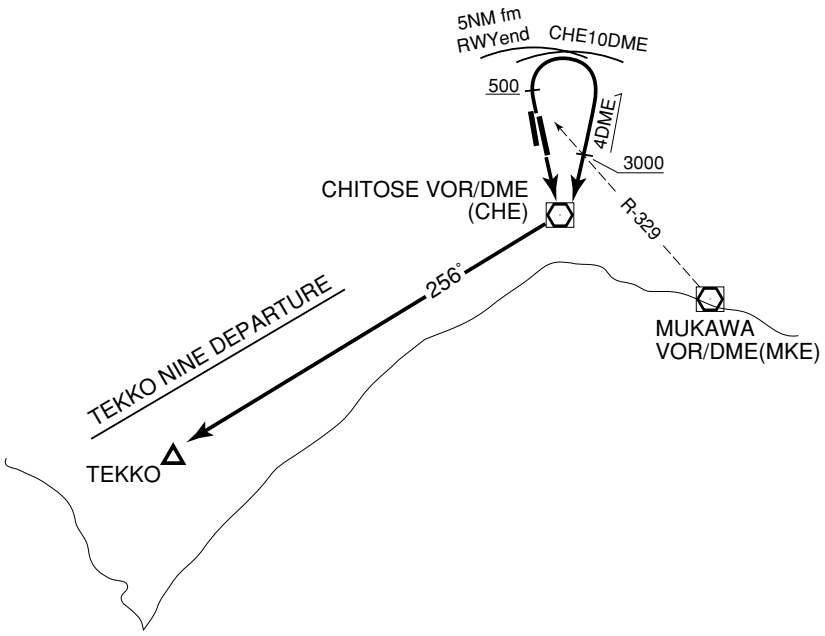
STANDARD DEPARTURE CHART-INSTRUMENT

RJCJ / CHITOSE SID

TEKKO NINE DEPARTURE

RWY 36R/36L : Climb via RWY HDG to 500ft or above, turn right to CHE VOR/DME within CHE 10DME (5NM FM RWY end).
Cross 4DME prior to CHE VOR/DME (MKE R-329) at or above 3,000ft....

RWY 18R/18L : Climb direct to CHE VOR/DME....
....Turn right via CHE R-256 to TEKKO.



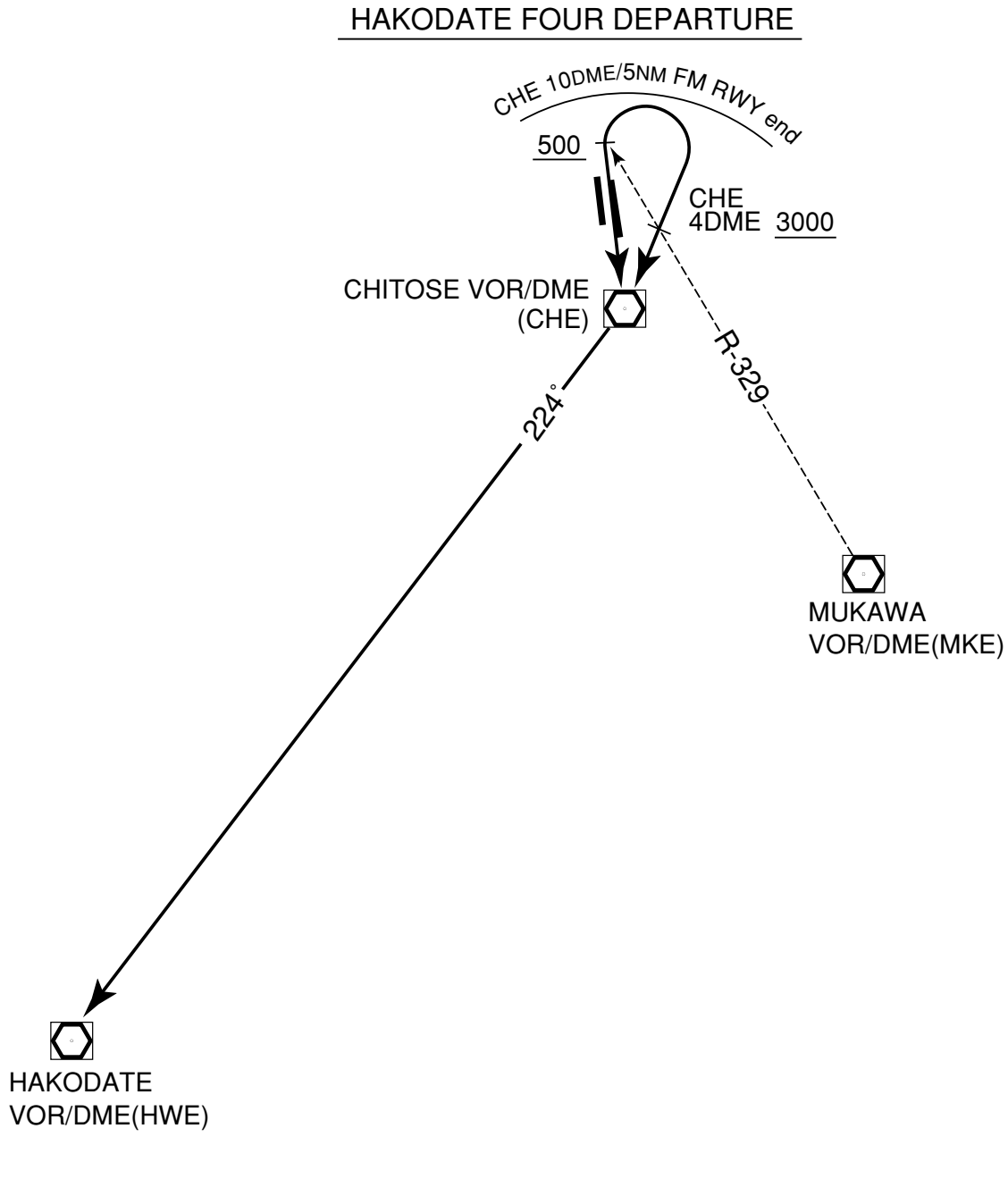
STANDARD DEPARTURE CHART-INSTRUMENT

RJCJ / CHITOSE SID

HAKODATE FOUR DEPARTURE

RWY 36R/36L : Climb via RWY HDG to 500ft or above, turn right to CHE VOR/DME within CHE 10DME (5NM FM RWY end).
Cross 4DME prior to CHE VOR/DME (MKE R-329) at or above 3,000ft....

RWY 18R/18L : Climb direct to CHE VOR/DME....
....then via CHE R-224 to HWE VOR/DME.



RJCJ / CHITOSE

SID

CHITOSE REVERSAL TWO DEPARTURE

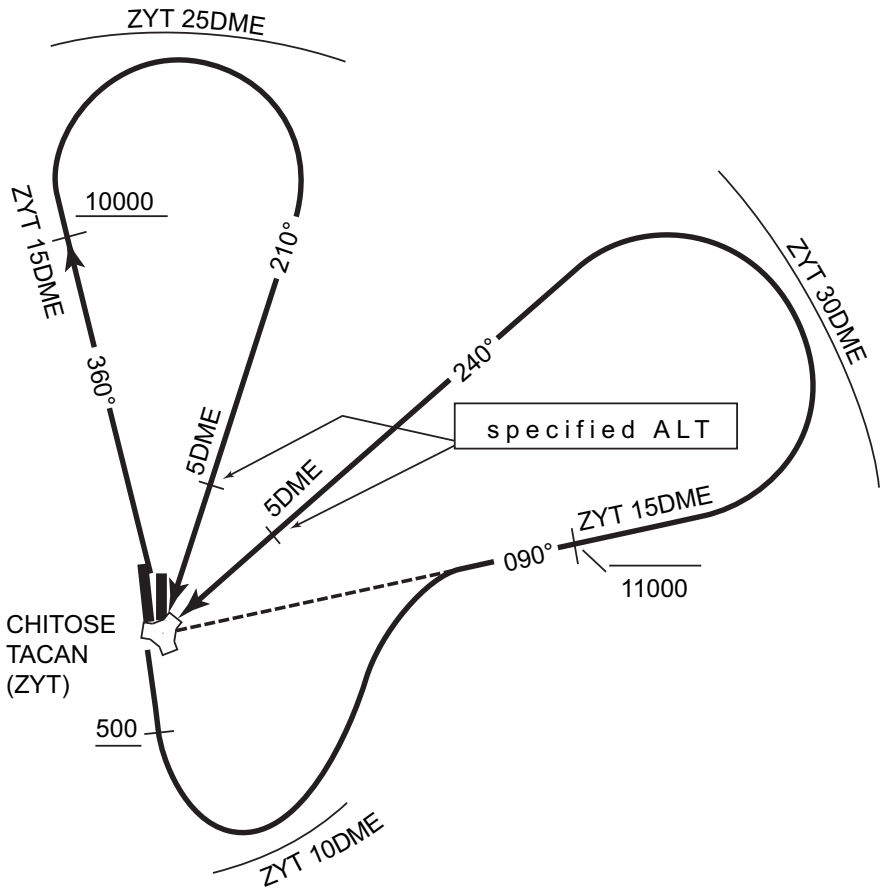
RWY 36R/36L : Climb via ZYT R-360, turn right to intercept and proceed via ZYT R-030 to ZYT TACAN within ZYT 25DME.
Cross ZYT R-360 / 15DME at or above 10,000 ft.
Cross ZYT R-030 / 5DME at specified altitude.

RWY 18R/18L : Climb via RWY HDG to 500 ft or above, turn left climb via ZYT R-090 within ZYT 10DME, turn left to intercept and proceed via ZYT R-060 to ZYT TACAN within ZYT 30DME.
Cross ZYT R-090 / 15DME at or below 11,000 ft.
Cross ZYT R-060 / 5DME at specified altitude.

Note : When take off RWY36L, following climb gradient should be maintained until passing 200ft.

Speed (Knots)	60	120	180	240	300	360
Rate (Feet/Min)	190	380	570	760	950	1140

CHITOSE REVERSAL TWO DEPARTURE



STANDARD DEPARTURE CHART-INSTRUMENT

RJCJ / CHITOSE SID

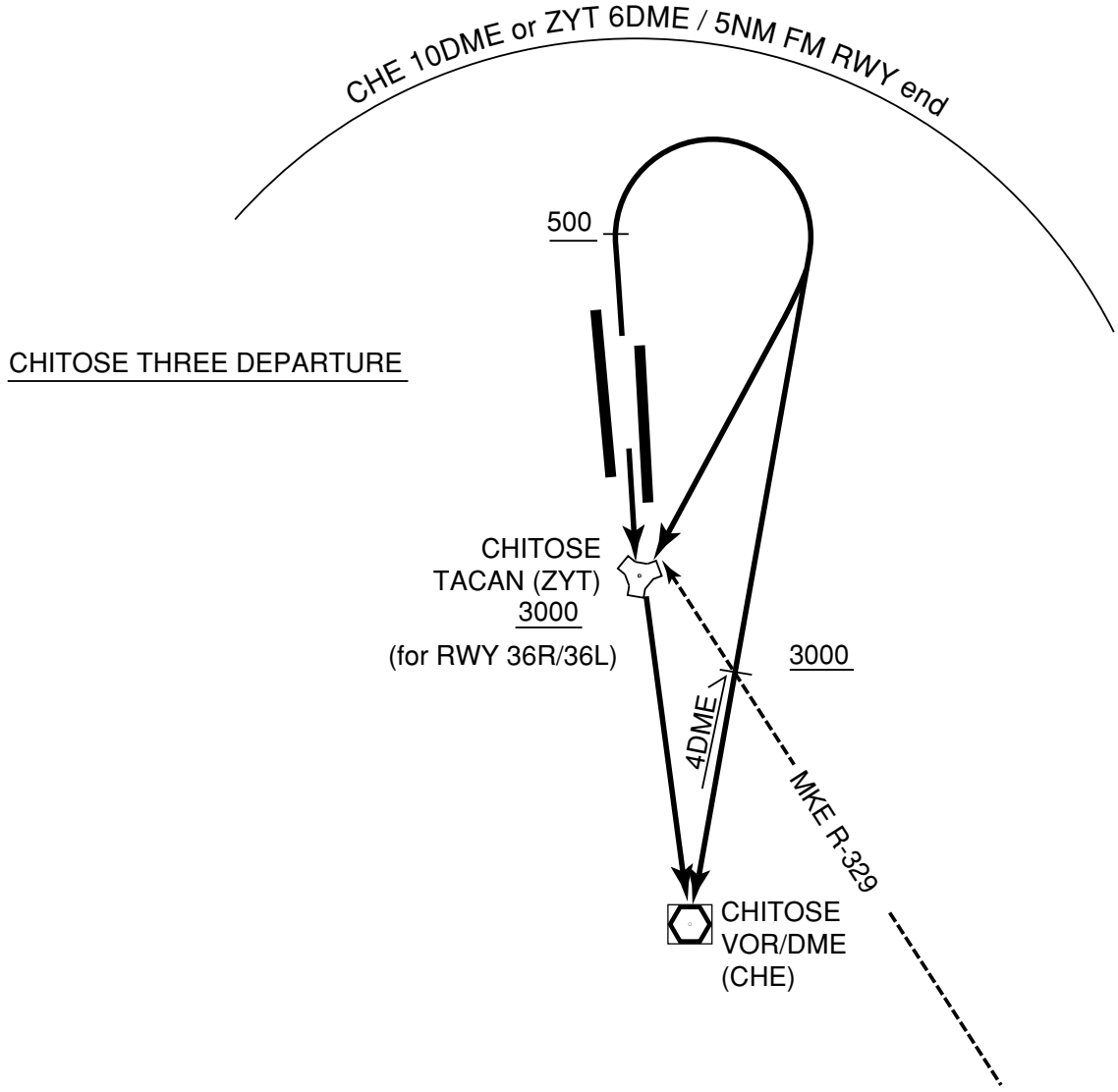
CHITOSE THREE DEPARTURE

RWY 36R/36L : Climb via RWY HDG to 500ft or above, turn right to CHE VOR/DME (ZYT TACAN) within CHE 10DME (ZYT 6DME/5NM FM RWY end).
Cross 4DME prior to CHE VOR/DME (ZYT TACAN/MKE R-329) at or above 3,000ft.

RWY 18R/18L : Climb direct to CHE VOR/DME (ZYT TACAN).

Note : When take off RWY36L (in case of using ZYT TACAN only), following climb gradient should be maintained until passing 200ft.

Speed (Knots)	60	120	180	240	300	360
Rate (Feet/Min)	190	380	570	760	950	1140



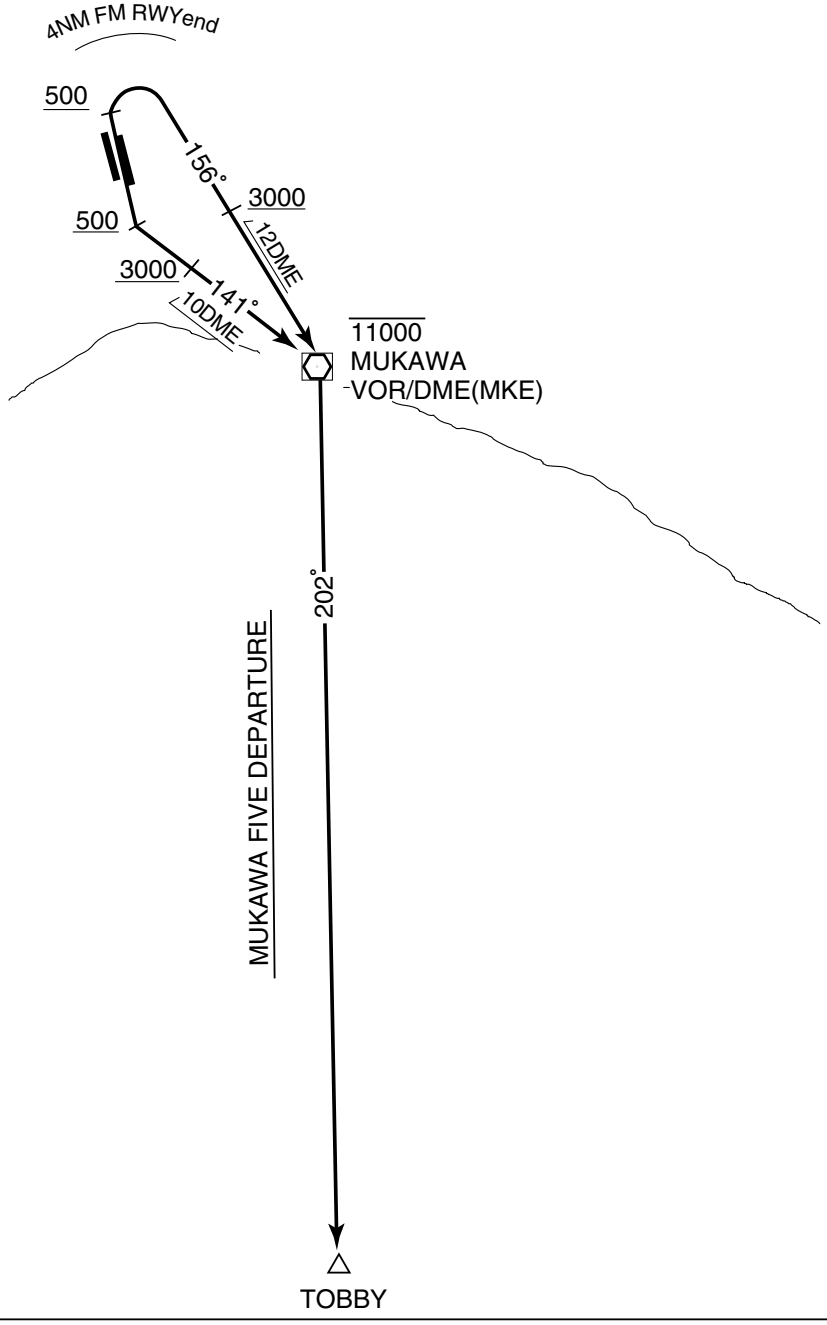
STANDARD DEPARTURE CHART-INSTRUMENT

RJCJ / CHITOSE SID

MUKAWA FIVE DEPARTURE

RWY 36R/36L: Climb via RWY HDG to 500ft or above, turn right within 4NM,climb via MKE R-336 to MKE VOR/DME, then via MKE R-202 to TOBBY.
Cross MKE R-336/12DME at or above 3,000ft.
Cross MKE VOR/DME at or below 11,000ft.

RWY 18R/18L: Climb via RWY HDG to 500ft or above, turn left, climb via MKE R-321 to MKE VOR/DME, then via MKE R-202 to TOBBY.
Cross MKE R-321/10DME at or above 3,000ft.
Corss MKE VOR/DME at or below 11,000ft.



STANDARD DEPARTURE CHART-INSTRUMENT

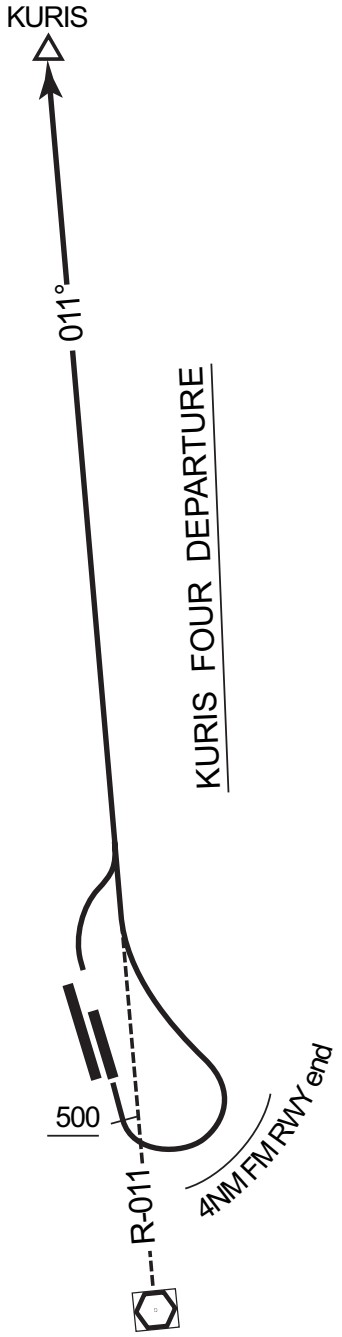
RJCJ / CHITOSE SID

KURIS FOUR DEPARTURE

RWY 36R/36L: ....

RWY 18R/18L: Climb via RWY HDG to 500ft or above, turn left within 4NM,...

....climb via CHE R-011 to KURIS.



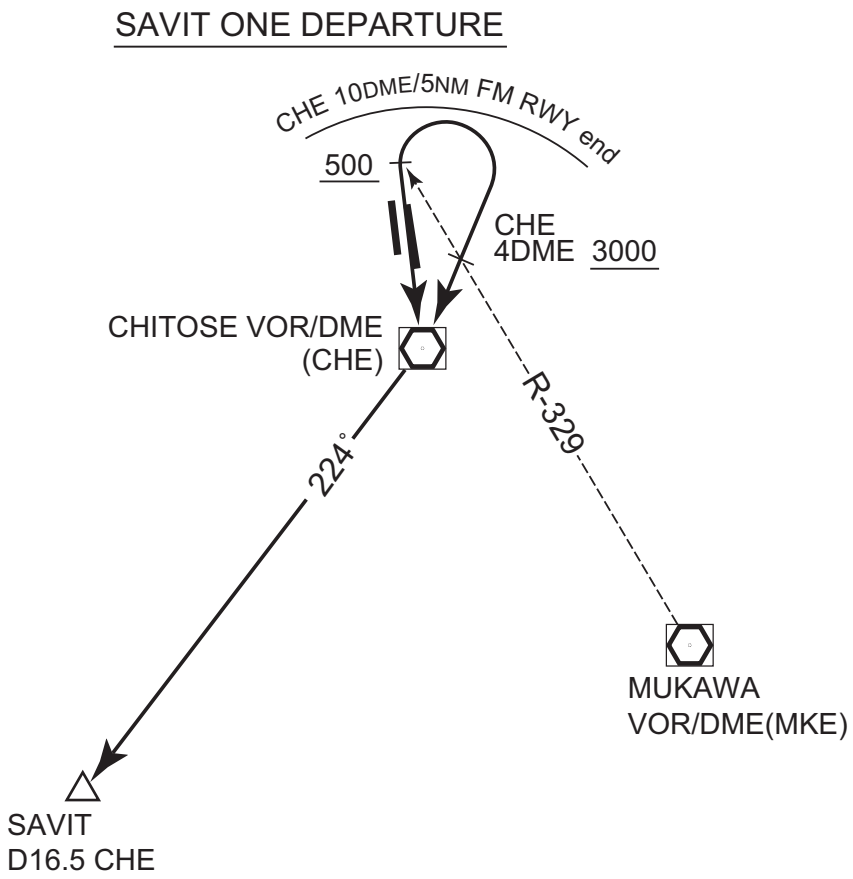
STANDARD DEPARTURE CHART-INSTRUMENT

RJCJ / CHITOSE SID

SAVIT ONE DEPARTURE

RWY 36R/36L : Climb via RWY HDG to 500ft or above, turn right to CHE VOR/DME within CHE 10DME (5NM FM RWY end). Cross 4DME prior to CHE VOR/DME (MKE R-329) at or above 3,000ft....

RWY 18R/18L : Climb direct to CHE VOR/DME....
....then via CHE R-224 to SAVIT.



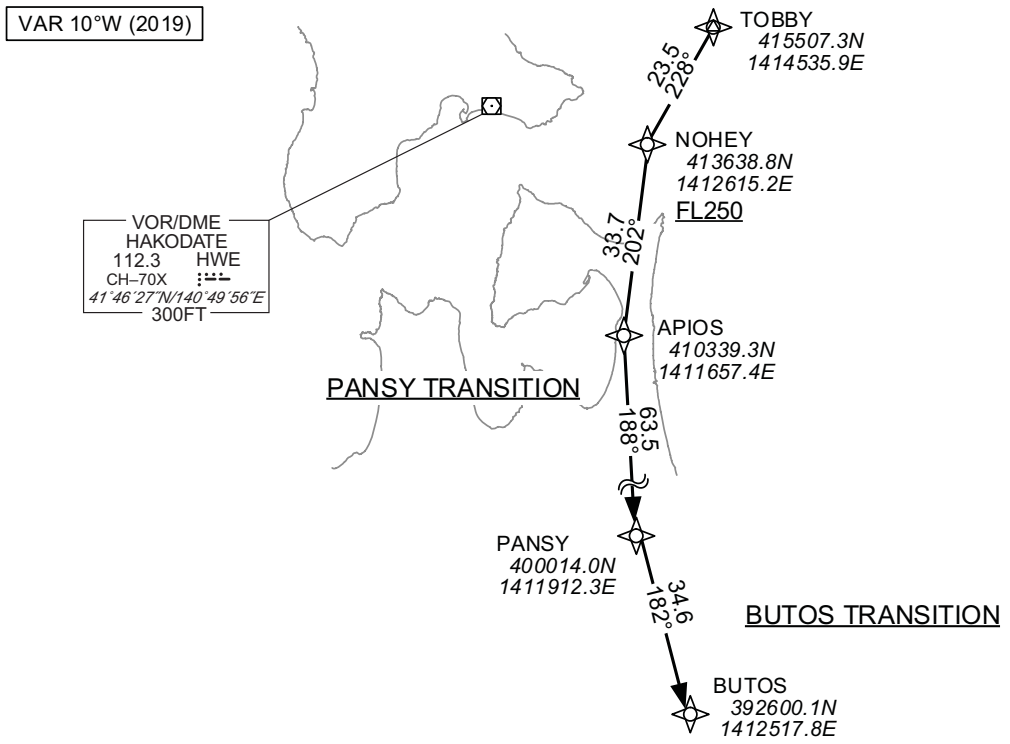
CHANGE : New PROC

STANDARD DEPARTURE CHART-INSTRUMENT

RJCJ / CHITOSE — RNAV TRANSITION

PANSY TRANSITION/BUTOS TRANSITION	RNAV 1

Note 1) DME/DME/IRU or GNSS required. 2) RADAR service required.	Critical DME	-
	DME GAP	-
	Inappropriate Navaids	See AD1.1.6.10.3 Inappropriate NAVAIDs for RNAV1



PANSY TRANSITION

From TOBBY, to NOHEY at or above FL250, to APIOS, to PANSY.

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	IF	TOBBY	—	—	-9.5	—	—	—	—	—	RNAV1
002	TF	NOHEY	—	228 (218.1)	-9.5	23.5	—	+FL250	—	—	RNAV1
003	TF	APIOS	—	202 (192.0)	-9.5	33.7	—	—	—	—	RNAV1
004	TF	PANSY	—	188 (178.4)	-9.5	63.5	—	—	—	—	RNAV1

BUTOS TRANSITION

From TOBBY, to NOHEY at or above FL250, to APIOS, to PANSY, to BUTOS.

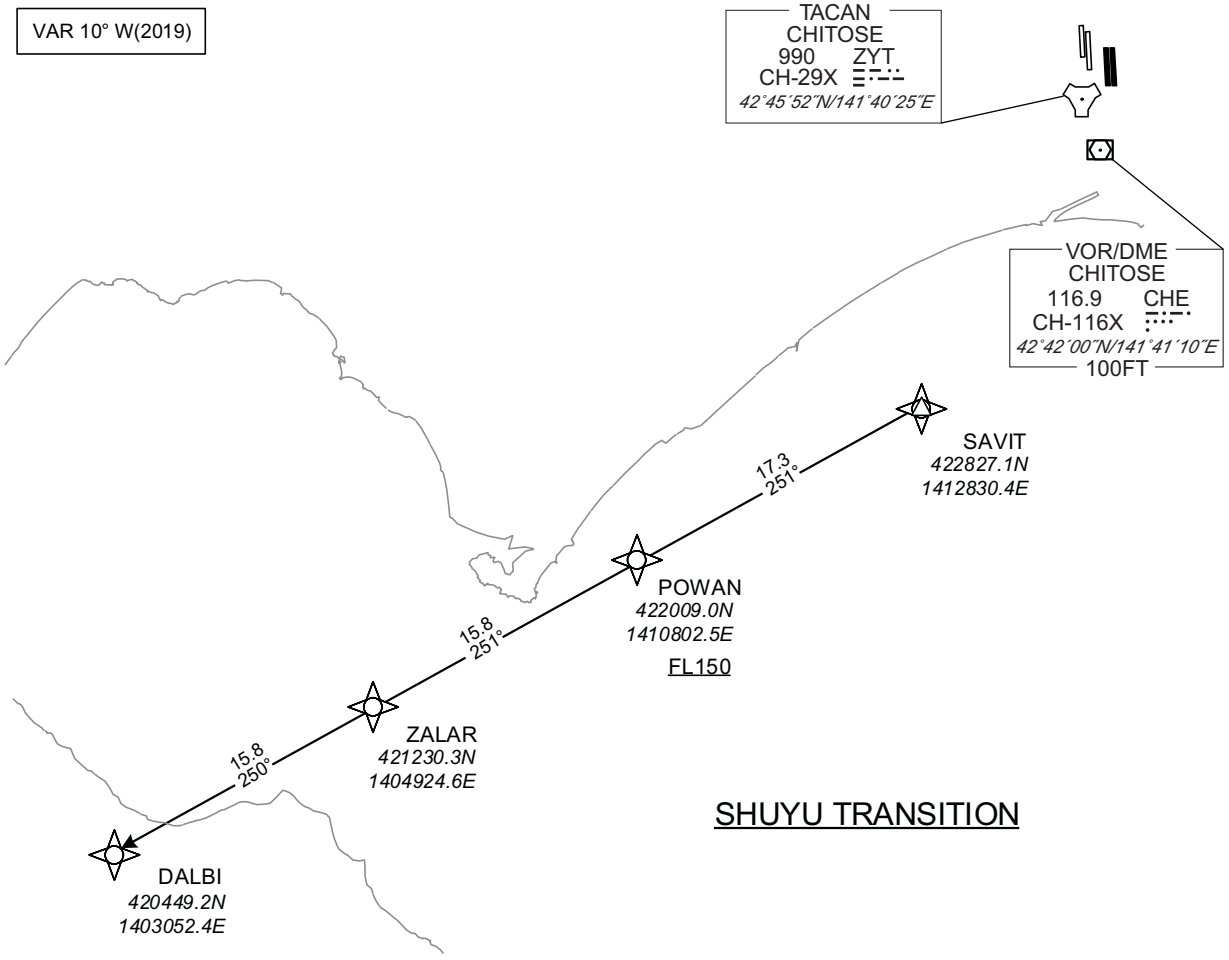
Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	IF	TOBBY	—	—	-9.5	—	—	—	—	—	RNAV1
002	TF	NOHEY	—	228 (218.1)	-9.5	23.5	—	+FL250	—	—	RNAV1
003	TF	APIOS	—	202 (192.0)	-9.5	33.7	—	—	—	—	RNAV1
004	TF	PANSY	—	188 (178.4)	-9.5	63.5	—	—	—	—	RNAV1
005	TF	BUTOS	—	182 (172.2)	-9.5	34.6	—	—	—	—	RNAV1

CHANGE : New PROC

STANDARD DEPARTURE CHART-INSTRUMENT

RJCJ / CHITOSE — RNAV TRANSITION

SHUYU TRANSITION		RNAV1
Note 1) DME/DME/IRU or GNSS required. 2) RADAR service required.	Critical DME	-
	DME GAP	-
	Inappropriate Navaids	See AD1.1.6.10.3. Inappropriate NAVAIDs for RNAV1



SHUYU TRANSITION

From SAVIT, to POWAN at or above FL150, to ZALAR, to DALBI.

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	IF	SAVIT	-	-	-9.5	-	-	-	-	-	RNAV1
002	TF	POWAN	-	251 (241.3)	-9.5	17.3	-	+FL150	-	-	RNAV1
003	TF	ZALAR	-	251 (241.1)	-9.5	15.8	-	-	-	-	RNAV1
004	TF	DALBI	-	250 (240.9)	-9.5	15.8	-	-	-	-	RNAV1

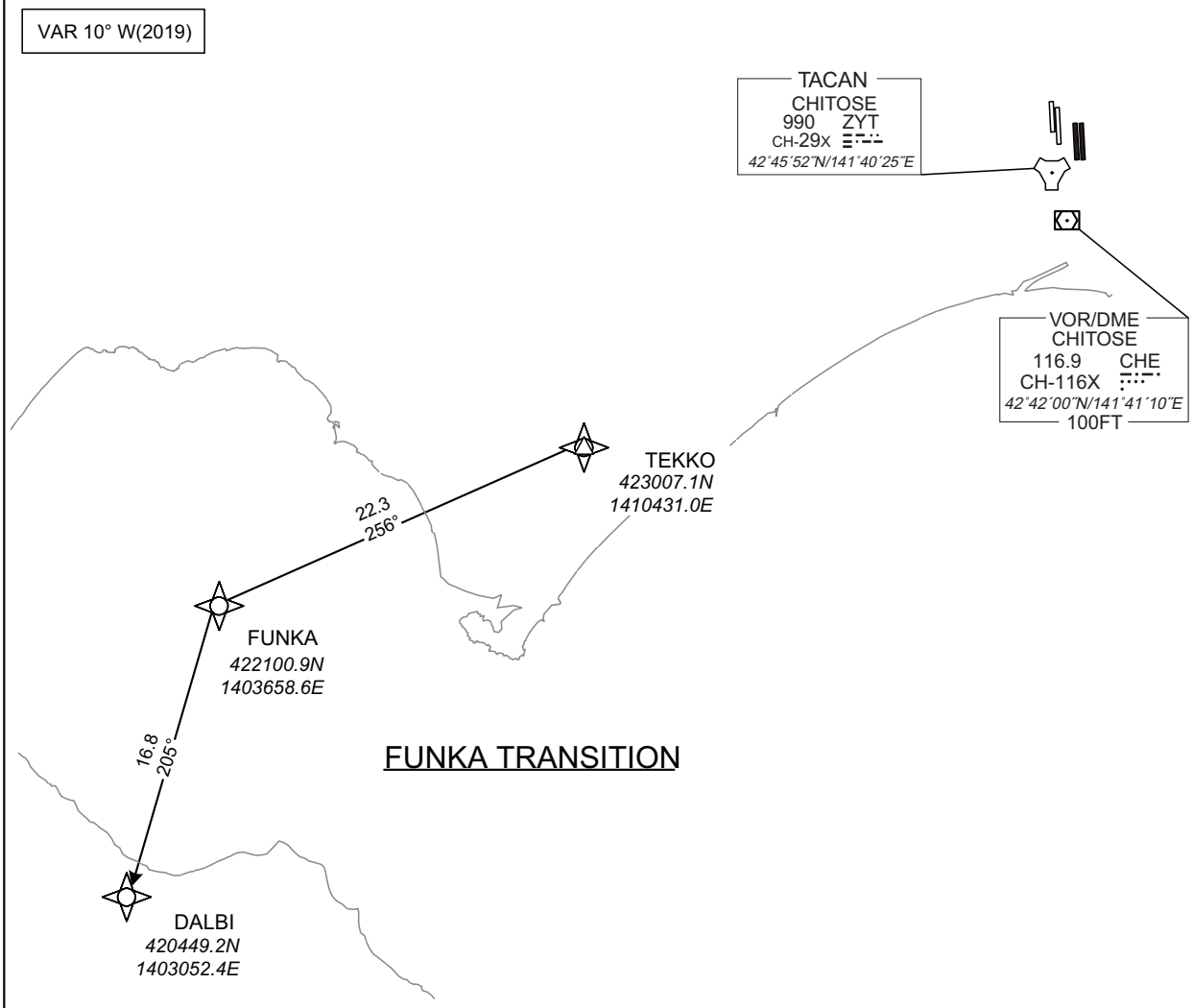
CHANGE : New PROC

STANDARD DEPARTURE CHART-INSTRUMENT

RJCJ / CHITOSE

RNAV TRANSITION

FUNKA TRANSITION		RNAV1
Note 1) DME/DME/IRU or GNSS required. 2) RADAR service required.	Critical DME	MRE : 12.0NM to FUNKA - FUNKA
	DME GAP	-
	Inappropriate Navaids	See AD1.1.6.10.3. Inappropriate NAVAIDs for RNAV1



FUNKA TRANSITION

From TEKKO, to FUNKA, to DALBI.

CHANGE : Critical DME

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	IF	TEKKO	-	-	-9.5	-	-	-	-	-	RNAV1
002	TF	FUNKA	-	256 (246.0)	-9.5	22.3	-	-	-	-	RNAV1
003	TF	DALBI	-	205 (195.6)	-9.5	16.8	-	-	-	-	RNAV1

STANDARD ARRIVAL CHART-INSTRUMENT

RJCJ / CHITOSE STAR

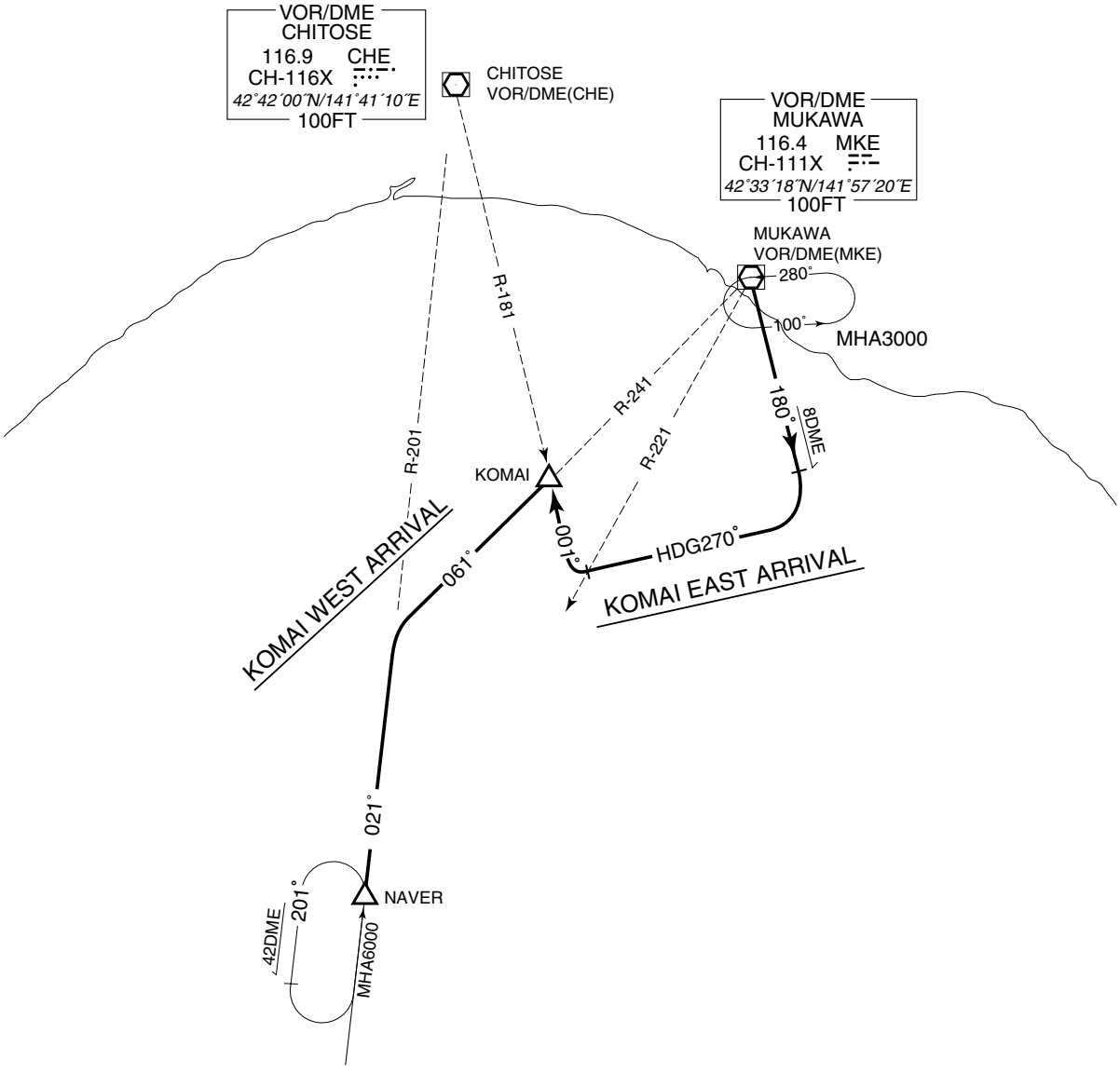
STARs for RWY36

KOMAI WEST ARRIVAL

From over NAVER, via CHE R-201 to intercept and proceed via MKE R-241 to KOMAI.

KOMAI EAST ARRIVAL

From over MKE VOR/DME, via MKE R-180 to MKE R-180/8DME, turn right, proceed via HDG 270 DEG to intercept MKE R-221, then turn right to intercept CHE R-181 to KOMAI.



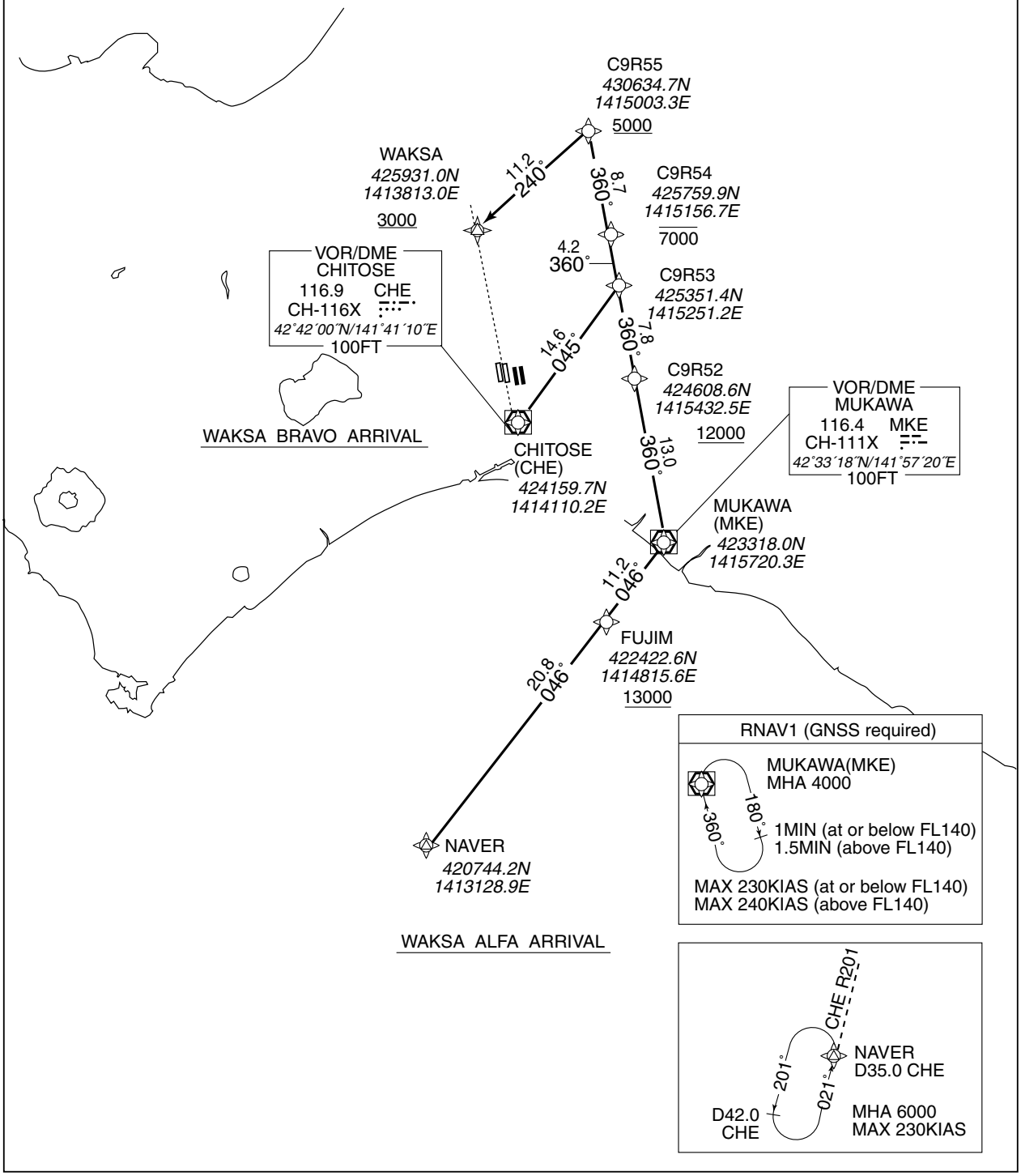
STANDARD ARRIVAL CHART-INSTRUMENT

RJCJ / CHITOSE RNAV STAR RWY18L

WAKSA ALFA ARRIVAL WAKSA BRAVO ARRIVAL	RNAV 1

Note 1) DME/DME/IRU or GNSS required.
2) RADAR service required.

VAR 9° W(2016)



STANDARD ARRIVAL CHART-INSTRUMENT

RJCJ / CHITOSE RNAV STAR RWY18L

WAKSA ALFA ARRIVAL

From NAVER, to FUJIM at or above 13000FT, to MKE, to C9R52 at or above 12000FT, to C9R53, to C9R54 at or below 7000FT, to C9R55 at or above 5000FT, to WAKSA at or above 3000FT.

Critical DME	SPE: C9R55 - WAKSA MKE: 10.0NM to MKE - 3.0NM to MKE 10.0NM to C9R52 - 8.0NM to C9R52
DME GAP	3.0NM to MKE - 10.0NM to C9R52
Inappropriate Navaids	See AD1.1.6.10.3. Inappropriate NAVAIDs for RNAV1

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	IF	NAVER	—	—	-9.3	—	—	—	—	—	RNAV1
002	TF	FUJIM	—	046 (036.6)	-9.3	20.8	—	+13000	—	—	RNAV1
003	TF	MKE	—	046 (036.8)	-9.3	11.2	—	—	—	—	RNAV1
004	TF	C9R52	—	360 (350.9)	-9.3	13.0	—	+12000	—	—	RNAV1
005	TF	C9R53	—	360 (350.9)	-9.3	7.8	—	—	—	—	RNAV1
006	TF	C9R54	—	360 (350.9)	-9.3	4.2	—	-7000	—	—	RNAV1
007	TF	C9R55	—	360 (350.9)	-9.3	8.7	—	+5000	—	—	RNAV1
008	TF	WAKSA	—	240 (230.8)	-9.3	11.2	—	+3000	—	—	RNAV1

Path	Waypoint Identifier	Inbound Course °M(°T)	Magnetic Variation	Outbound Time (MIN)	Turn Direction	Minimum Altitude (FT)	Maximum Altitude (FT)	Speed (KIAS)	Navigation Specification
Hold	MUKAWA (MKE)	360 (350.9)	-9.3	1.0(-14000) 1.5(+14001)	R	4000	—	-230(-14000) -240(+14001)	RNAV1

STANDARD ARRIVAL CHART-INSTRUMENT

RJCJ / CHITOSE RNAV STAR RWY18L

WAKSA BRAVO ARRIVAL

From CHE, to C9R53, to C9R54 at or below 7000FT, to C9R55 at or above 5000FT, to WAKSA at or above 3000FT.

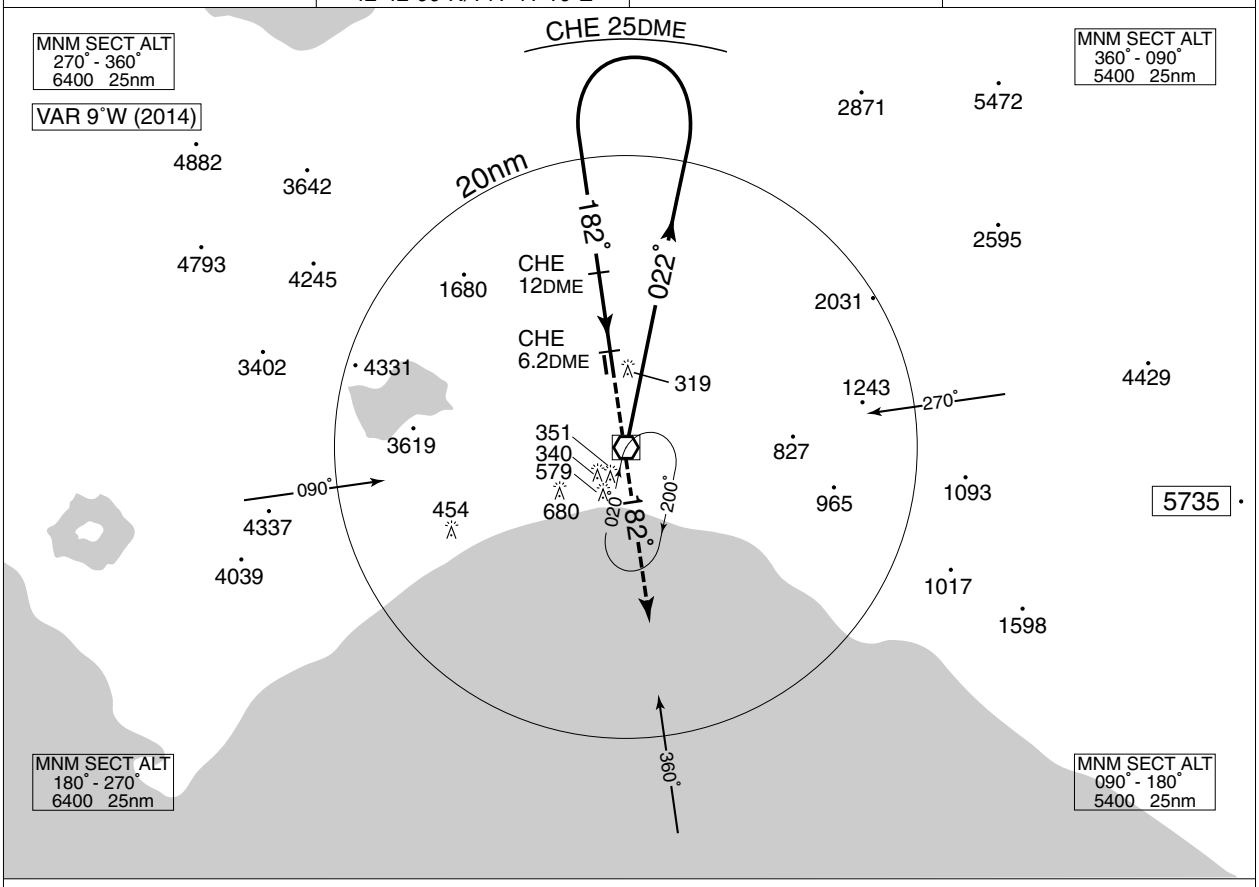
Critical DME	SPE: C9R55 - WAKSA
DME GAP	CHE - 11.0NM to C9R53
Inappropriate Navaids	See AD1.1.6.10.3. Inappropriate NAVAIDs for RNAV1

Serial Number	Path Descriptor	Waypoint Identifier	Fly Over	Course °M(°T)	Magnetic Variation	Distance (NM)	Turn Direction	Altitude (FT)	Speed (KIAS)	Vertical Angle	Navigation Specification
001	IF	CHE	—	—	-9.3	—	—	—	—	—	RNAV1
002	TF	C9R53	—	045 (035.8)	-9.3	14.6	—	—	—	—	RNAV1
003	TF	C9R54	—	360 (350.9)	-9.3	4.2	—	-7000	—	—	RNAV1
004	TF	C9R55	—	360 (350.9)	-9.3	8.7	—	+5000	—	—	RNAV1
005	TF	WAKSA	—	240 (230.8)	-9.3	11.2	—	+3000	—	—	RNAV1

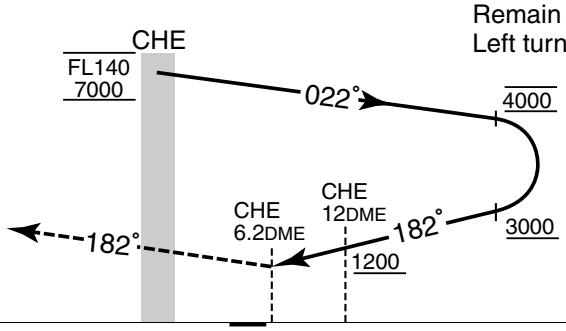
INSTRUMENT APPROACH CHART

RJCJ / CHITOSE VOR/DME NR.1 RWY 18L

CHITOSE APP	CHITOSE VOR/DME	CHITOSE TOWER	RADAR AVAILABLE
120.1-124.7	116.9 CHE	126.2 - 118.2	
362.3-305.7	CH-116	236.8-304.5-121.7G	
	42˚42´00˝N/141˚41´10˝E		



MISSED APPROACH
At 6.2DME prior to CHE VOR/DME, climb to 4000´ (2000´ for PROP) on CHE R-182.
Contact CHITOSE APP.



Remain within CHE 25DME
Left turn start at 4000´.

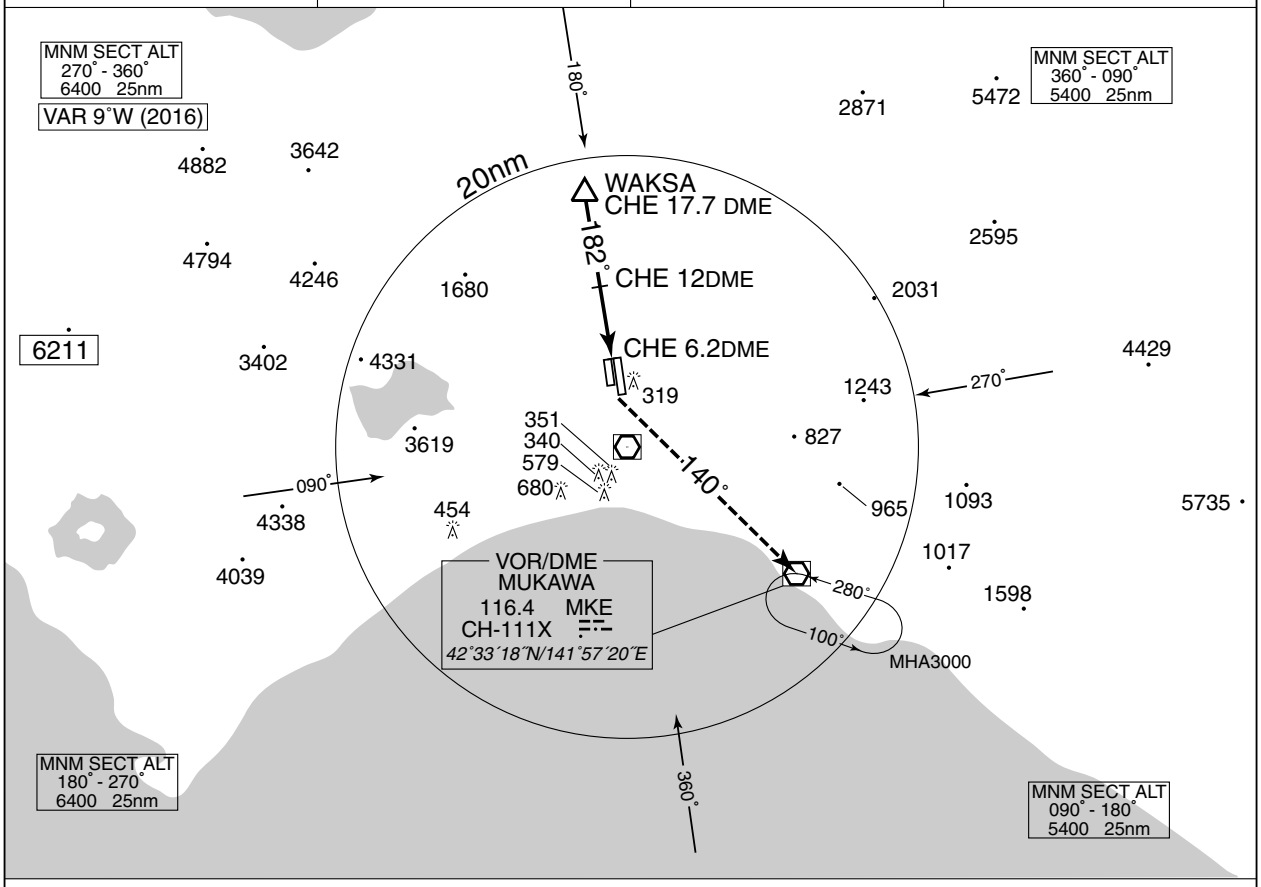
MINIMA THR elev. 70 AD elev. 89

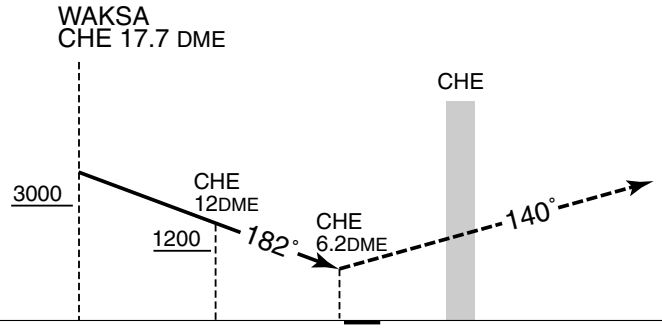
CAT			CIRCLING	
	MDA(H)	RVR/ CMV	MDA(H)	VIS
A	560 (490)	1000	620 (531)	1600
B		1200		
C				2400
D		1600	640 (551)	3200

INSTRUMENT APPROACH CHART

RJCJ / CHITOSE VOR/DME NR.2 RWY18L

CHITOSE APP	CHITOSE VOR/DME	CHITOSE TOWER	RADAR AVAILABLE
120.1-124.7 362.3-305.7	116.9 CHE CH-116X *42°42′00″N/141°41′10″E*	118.2-126.2 236.8-304.5-121.7G	





MISSED APPROACH
At 6.2DME prior to CHE VOR/DME, turn left climb via MKE R-320 to 5000′ proceed to MKE VOR/DME and hold.
Contact CHITOSE APP.

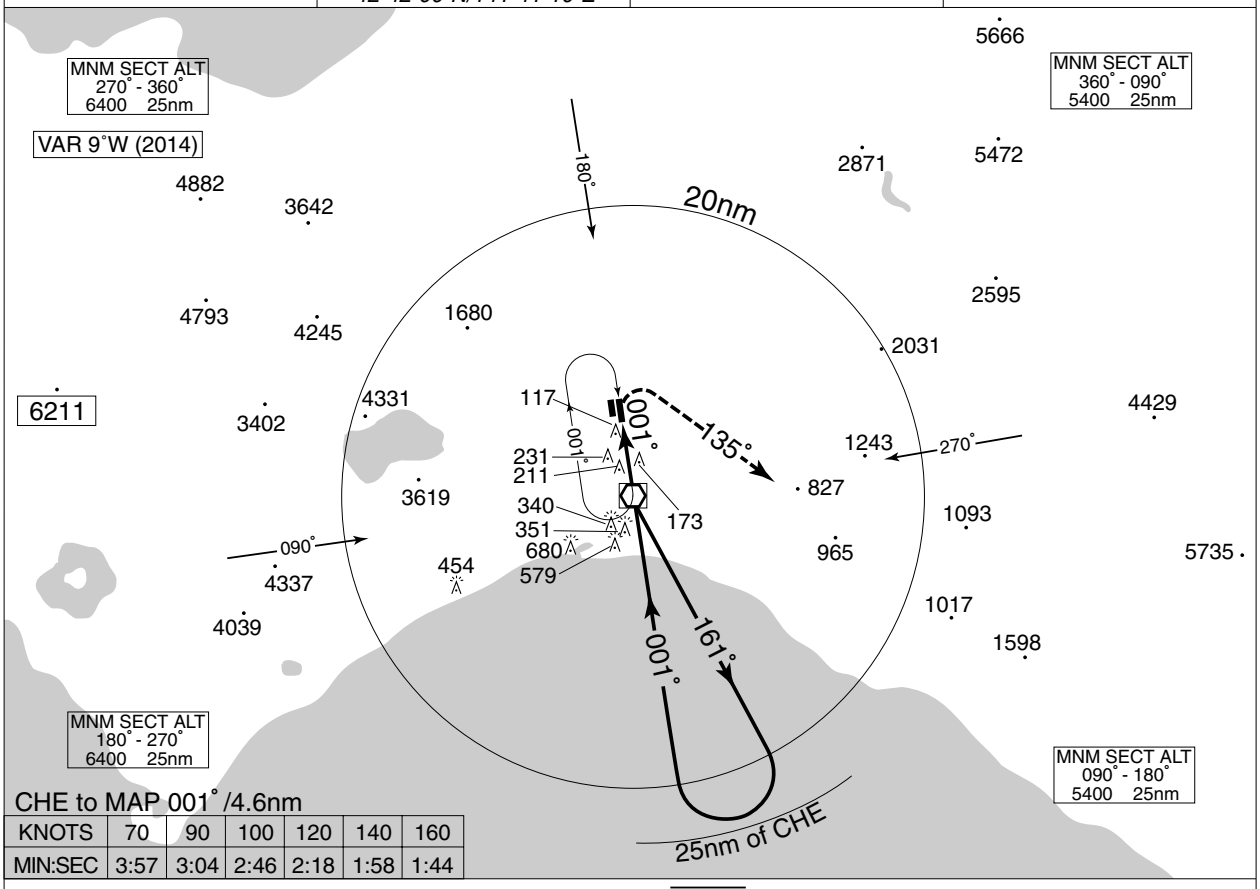
MINIMA THR elev. 70 AD elev. 89

CAT			CIRCLING	
	MDA(H)	RVR/CMV	MDA(H)	VIS
A	560 (490)	1000	620 (531)	1600
B		1200		
C				2400
D		1600	640 (551)	3200

INSTRUMENT APPROACH CHART

RJCJ / CHITOSE VOR NR.1 RWY 36R

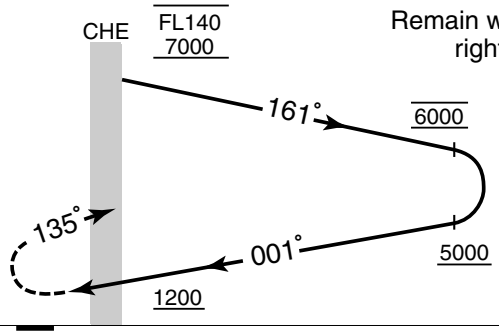
CHITOSE APP	CHITOSE VOR/DME	CHITOSE TOWER	RADAR AVAILABLE
120.1 - 124.7 362.3 - 305.7	116.9 CHE CH-116 *42˚42´00˝N/141˚41´10˝E*	126.2 - 118.2 236.8 - 304.5 - 121.7G	



CHE to MAP 001˚/4.6nm

KNOTS	70	90	100	120	140	160
MIN:SEC	3:57	3:04	2:46	2:18	1:58	1:44

MISSED APPROACH
At 4.6nm after passing CHE VOR,
turn right climb to 4000´
(2000´ for PROP) on 135˚.
Contact CHITOSE APP.



Remain within 25nm of CHE
right turn start at 6000´.

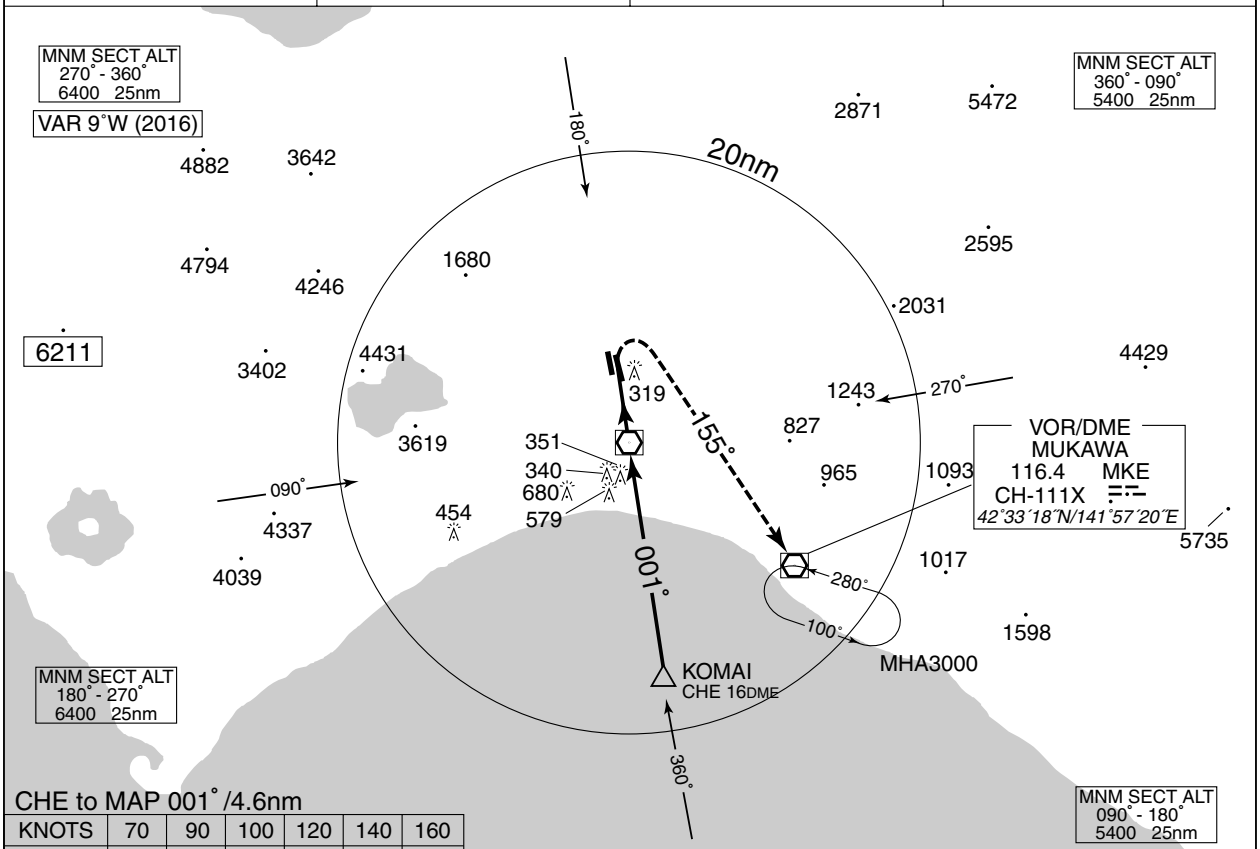
MINIMA THR elev. 85 AD elev. 89

CAT			CIRCLING	
	MDA(H)	RVR/ CMV	MDA(H)	VIS
A	620 (531)	1000	620 (531)	1600
B		1200		
C				2400
D		1600	640 (551)	3200

INSTRUMENT APPROACH CHART

RJCJ / CHITOSE VOR NR.2 RWY36R

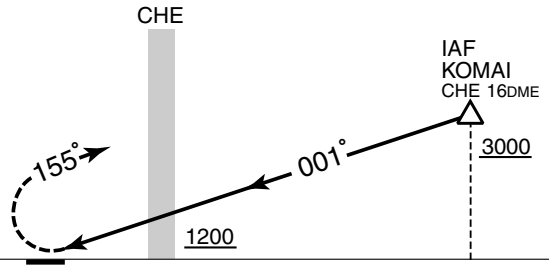
CHITOSE APP	CHITOSE VOR/DME	CHITOSE TOWER	RADAR AVAILABLE
120.1 - 124.7 362.3 - 305.7	116.9 CHE CH-116X *42°42′00″N/141°41′10″E*	118.2 - 126.2 236.8 - 304.5 - 121.7G	



CHE to MAP 001° /4.6nm

KNOTS	70	90	100	120	140	160
MIN:SEC	3:57	3:04	2:46	2:18	1:58	1:44

MISSED APPROACH
At 4.6nm after passing CHE VOR,
turn right climb via MKE
R-335 to 5000′, proceed to
MKE VOR/DME and hold.
Contact CHITOSE APP.



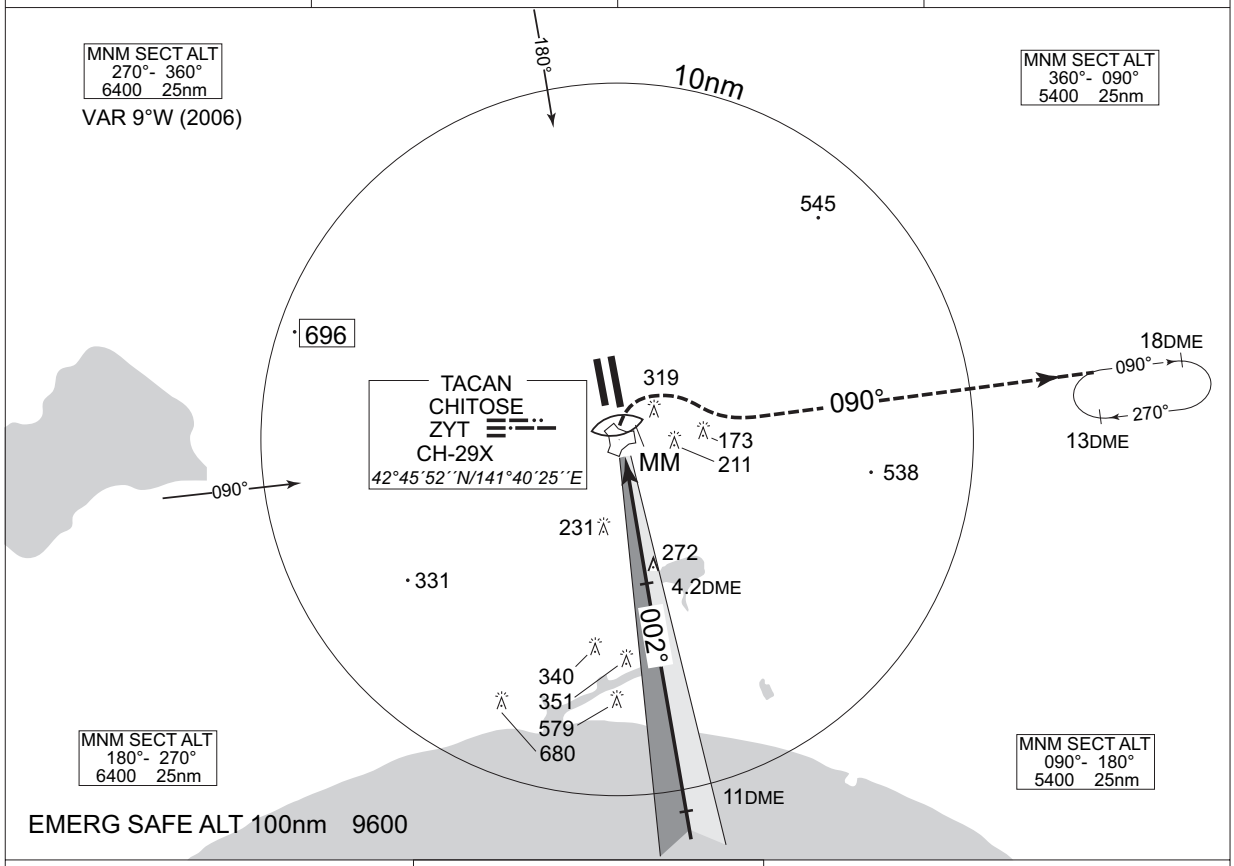
MINIMA THR elev. 85 AD elev. 89

CAT			CIRCLING	
	MDA(H)	RVR/ CMV	MDA(H)	VIS
A	620 (531)	1000	620 (531)	1600
B		1200		
C				2400
D		1600	640 (551)	3200

INSTRUMENT APPROACH CHART

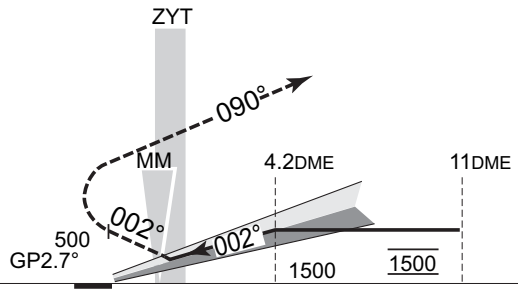
RJCJ / CHITOSE ILS RWY 36R

CHITOSE APP	ILS - LOC	CHITOSE TOWER	RADAR AVBL
124.7 - 120.1 362.3 - 305.7	110.3 ICB ILS-GP 335.0	126.2 - 118.2 236.8 - 304.5 - 121.7G	



ILS REFERENCE DATUM 48

MISSED APPROACH
At DA, climb to 500ft on 002°
then turn right climb via
ZYT R-090 to 18DME fix to
4,000ft and hold.
Contact CHITOSE APP.



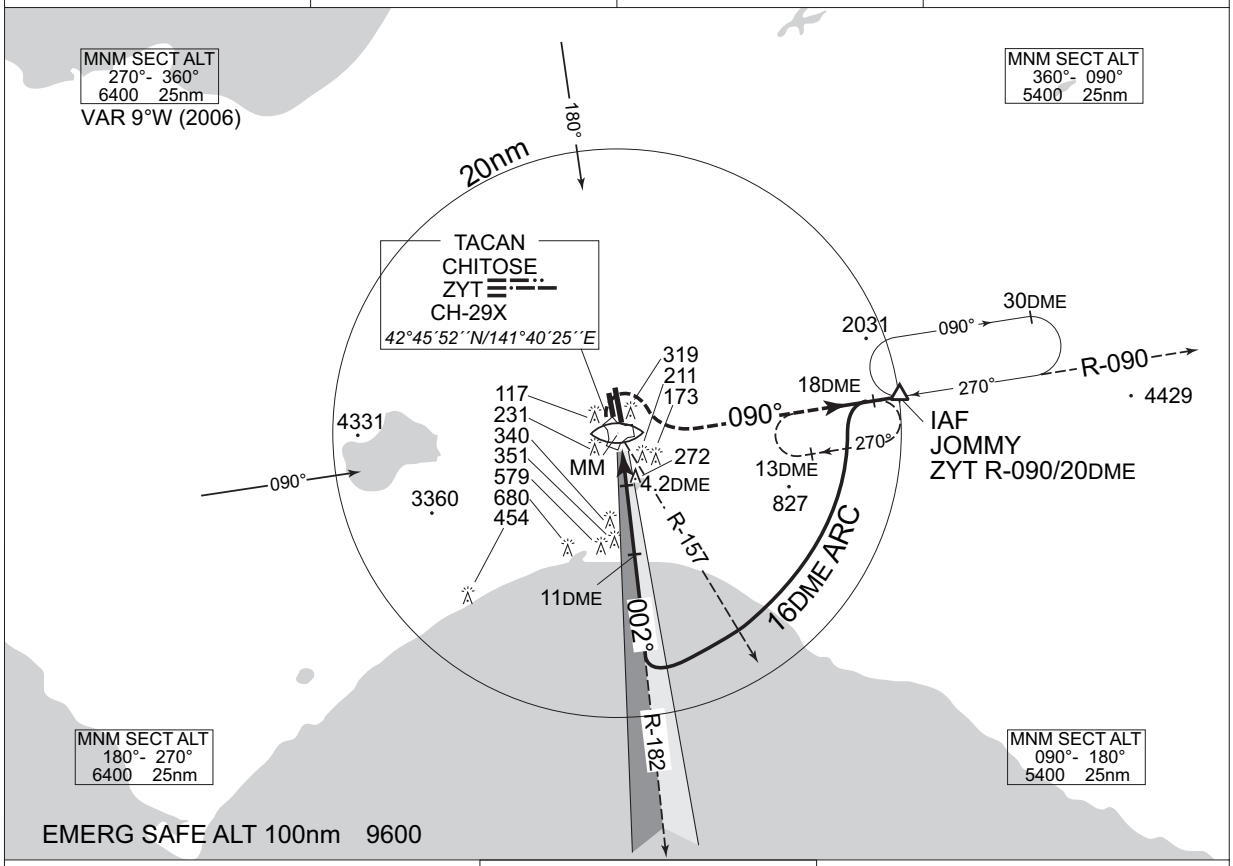
MINIMA THR elev. 85 AD elev. 89

CAT	CAT I		LOC		CIRCLING	
	DA(H)	RVR/ CMV	MDA(H)	RVR/ CMV	MDA(H)	VIS
A	291 (206)	750	580 (491)	1000	620 (531)	1600
B				1200		
C						2400
D				1600	640 (551)	3200

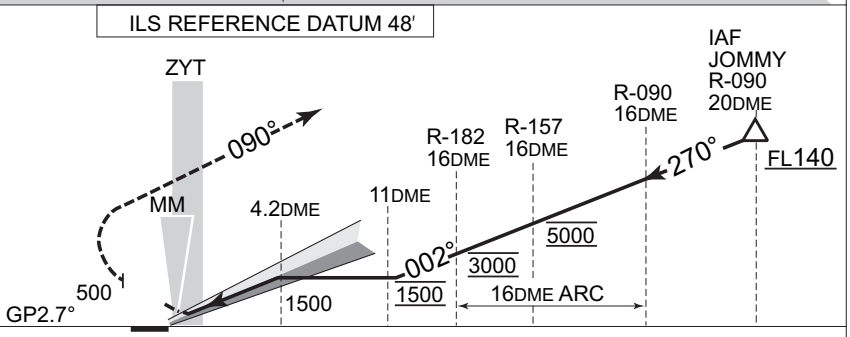
INSTRUMENT APPROACH CHART

RJCJ / CHITOSE TACAN NR.1 ILS RWY 36R

CHITOSE APP	ILS - LOC	CHITOSE TOWER	RADAR AVBL
124.7 - 120.1 362.3 - 305.7	110.3 ICB ILS - GP 335.0	126.2 - 118.2 236.8 - 304.5 - 121.7G	



MISSED APPROACH
At DA, climb to 500ft on 002°
then turn right climb via
ZYT R-090 to 18DME fix to
4,000ft and hold.
Contact CHITOSE APP.



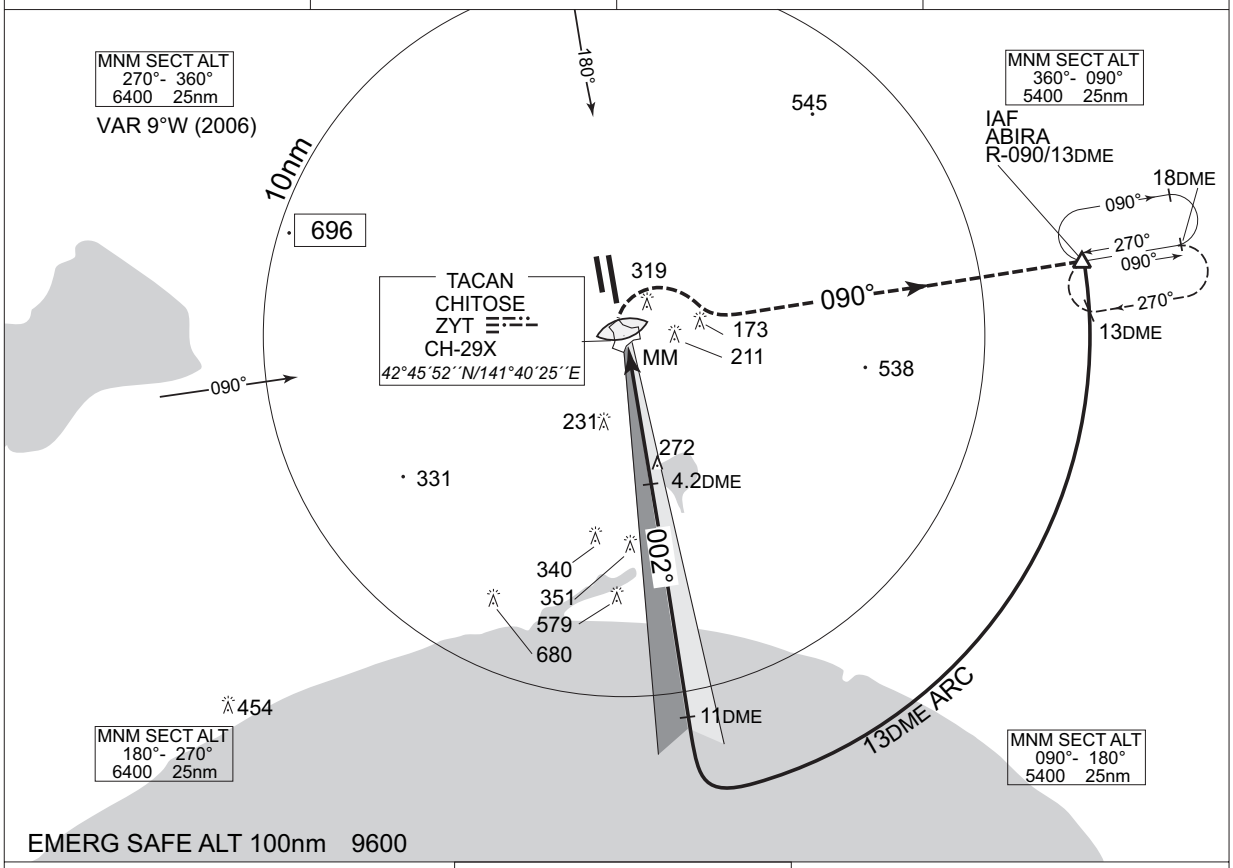
MINIMA THR elev. 85 AD elev. 89

CAT	CAT I		LOC		CIRCLING	
	DA(H)	RVR/ CMV	MDA(H)	RVR/ CMV	MDA(H)	VIS
A	291 (206)	750	580 (491)	1000	620 (531)	1600
B				1200		
C						2400
D				1600	640 (551)	3200

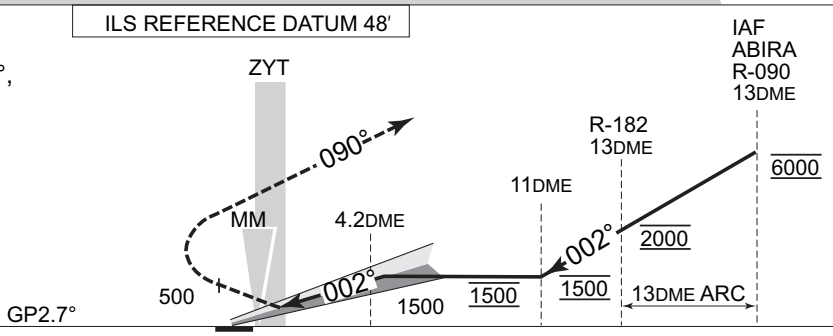
INSTRUMENT APPROACH CHART

RJCJ / CHITOSE TACAN NR.5 ILS RWY 36R

CHITOSE APP	ILS - LOC	CHITOSE TOWER	RADAR AVBL
124.7 - 120.1 362.3 - 305.7	110.3 ICB ILS - GP 335.0	126.2 - 118.2 236.8 - 304.5 - 121.7G	



MISSED APPROACH
At DA, climb to 500ft on 002°,
then turn right climb via
ZYT R-090 to 18DME fix to
4,000ft and hold.
Contact CHITOSE APP.



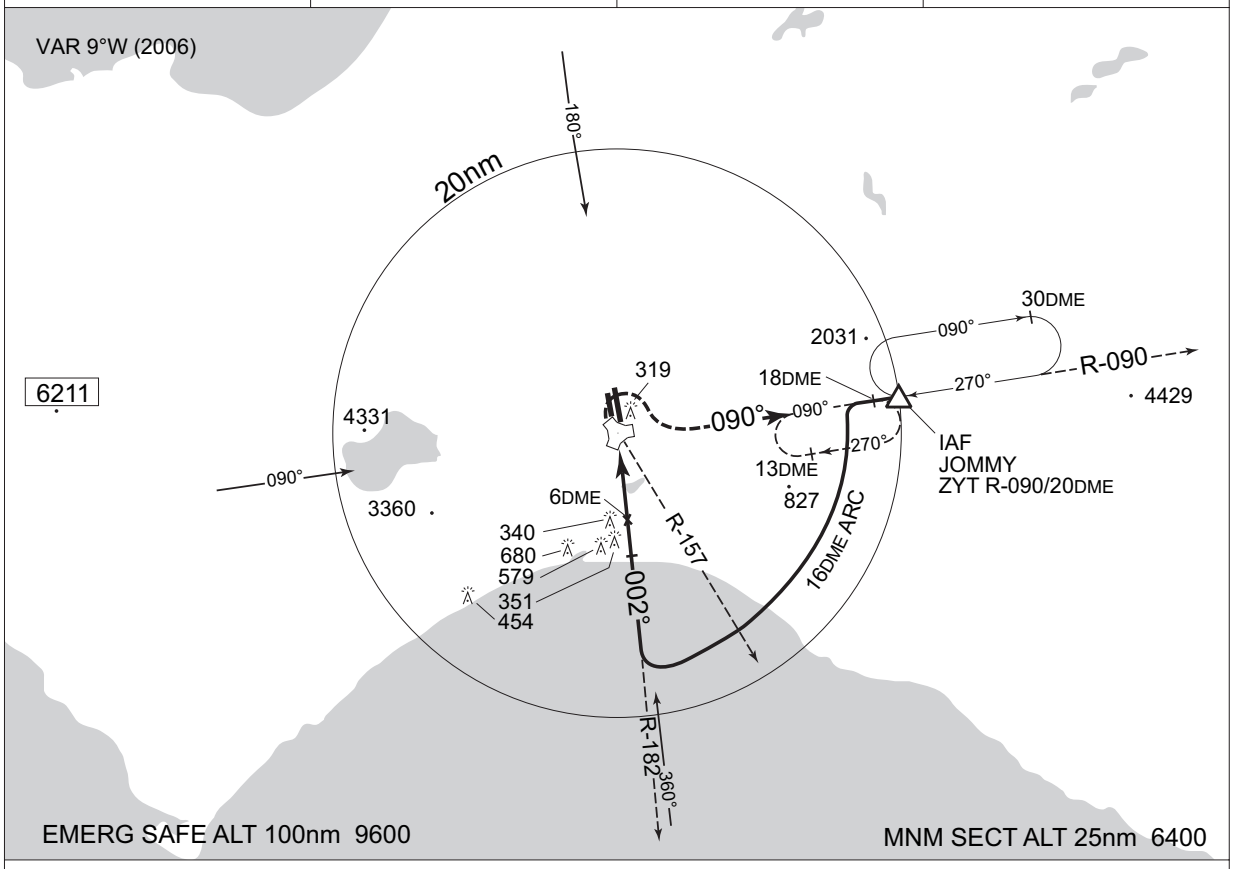
MINIMA THR elev. 85 AD elev. 89

CAT	CAT I		LOC		CIRCLING	
	DA(H)	RVR/ CMV	MDA(H)	RVR/ CMV	MDA(H)	VIS
A	291 (206)	750	580 (491)	1000	620 (531)	1600
B				1200		
C						2400
D				1600	640 (551)	3200

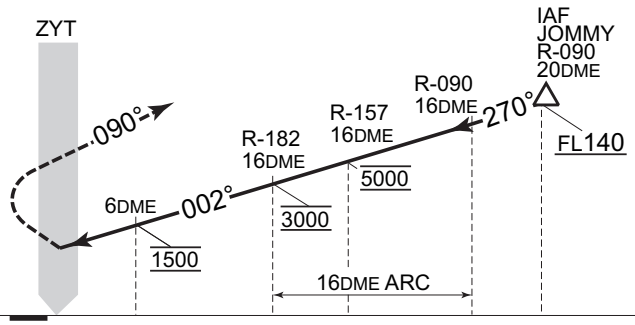
INSTRUMENT APPROACH CHART

RJCJ / CHITOSE TACAN NR.1 RWY 36R

CHITOSE APP	CHITOSE TACAN	CHITOSE TOWER	RADAR AVAILABLE
124.7 - 120.1 362.3 - 305.7	CH-29 ZYT Ξ·−·− *42°45´52´´N/141°40´25´´E*	126.2 - 118.2 236.8 - 304.5 - 121.7G	



MISSED APPROACH
At ZYT TACAN, turn right climb via ZYT R-090 to 18DME fix to 4000ft and hold.
Contact CHITOSE APP.



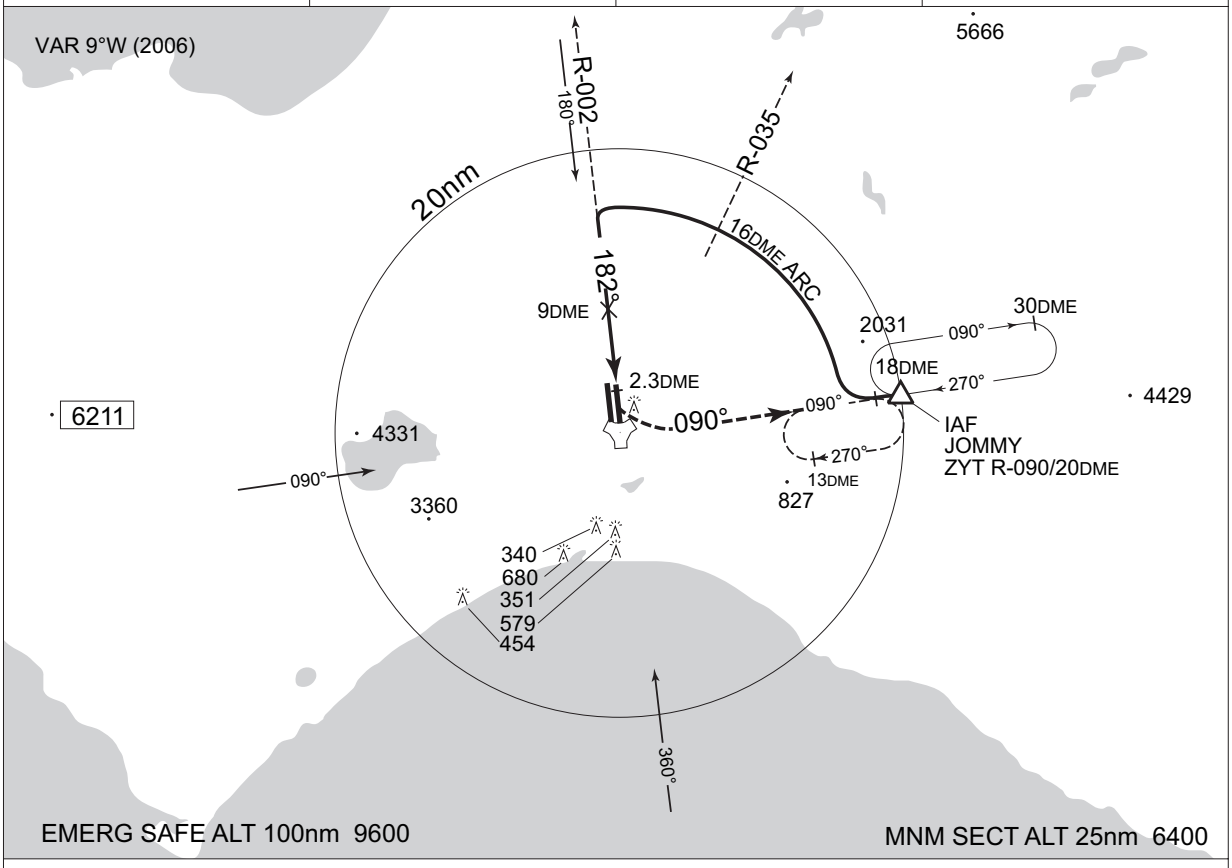
MINIMA THR elev. 85 AD elev. 89

CAT			CIRCLING	
	MDA(H)	RVR/ CMV	MDA(H)	VIS
A	600 (511)	1000	600 (511)	1600
B		1200		
C				2400
D		1600		3200

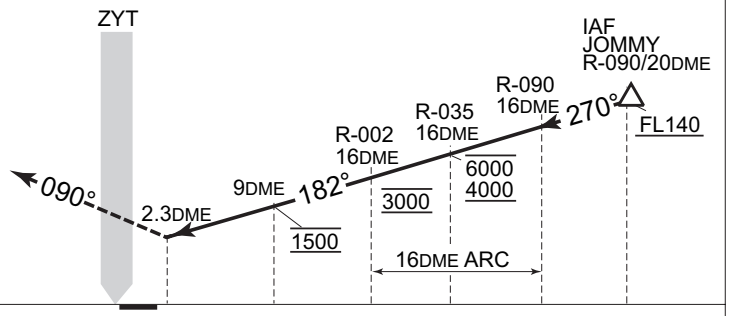
INSTRUMENT APPROACH CHART

RJCJ / CHITOSE TACAN NR.3 RWY 18L

CHITOSE APP	CHITOSE TACAN	CHITOSE TOWER	RADAR AVAILABLE
124.7 - 120.1 362.3 - 305.7	CH-29 ZYT *42°45´52´´N/141°40´25´´E*	126.2 - 118.2 236.8 - 304.5 - 121.7G	



MISSED APPROACH
At 2.3 DME prior to ZYT TACAN, turn left climb via ZYT R-090 to 18DME fix to 4000ft and hold.
Contact CHITOSE APP.



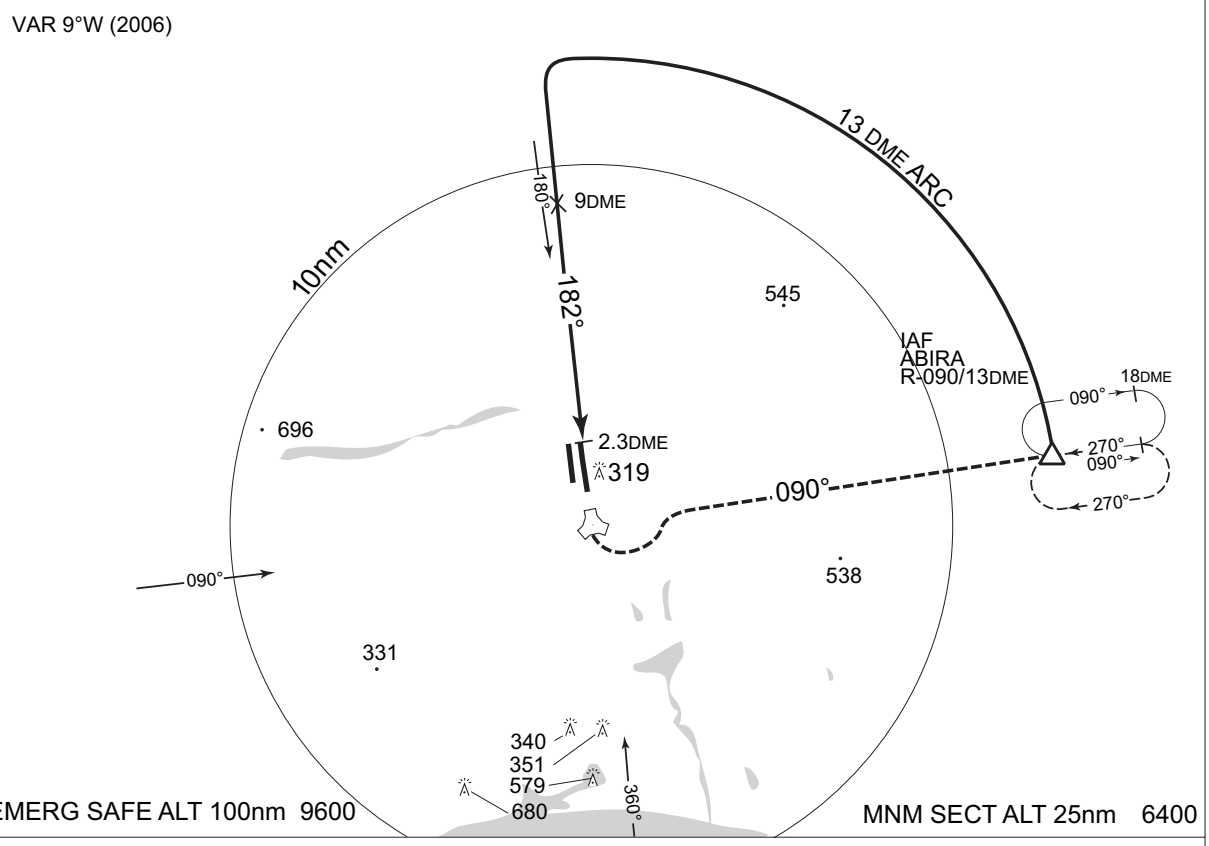
MINIMA THR elev. 70 AD elev. 89

CAT			CIRCLING	
	MDA(H)	RVR/ CMV	MDA(H)	VIS
A	600 (530)	1000	600 (511)	1600
B		1200		
C				2400
D		1600		3200

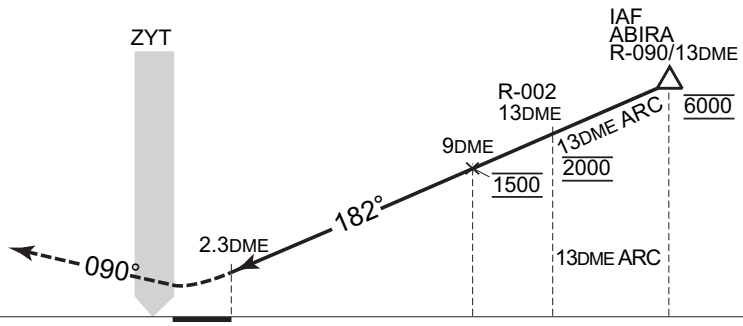
INSTRUMENT APPROACH CHART

RJCJ / CHITOSE TACAN NR.4 RWY 18L

CHITOSE APP	CHITOSE TACAN	CHITOSE TOWER	RADAR AVAILABLE
124.7 - 120.1 362.3 - 305.7	CH-29 ZYT Ξ·−·− *42°45´52´´N/141°40´25´´E*	126.2 - 118.2 236.8 - 304.5 - 121.7G	



MISSED APPROACH
At 2.3DME prior to ZYT TACAN,
turn left climb via ZYT R-090
to 18DME fix to 4000ft and hold.
Contact CHITOSE APP.



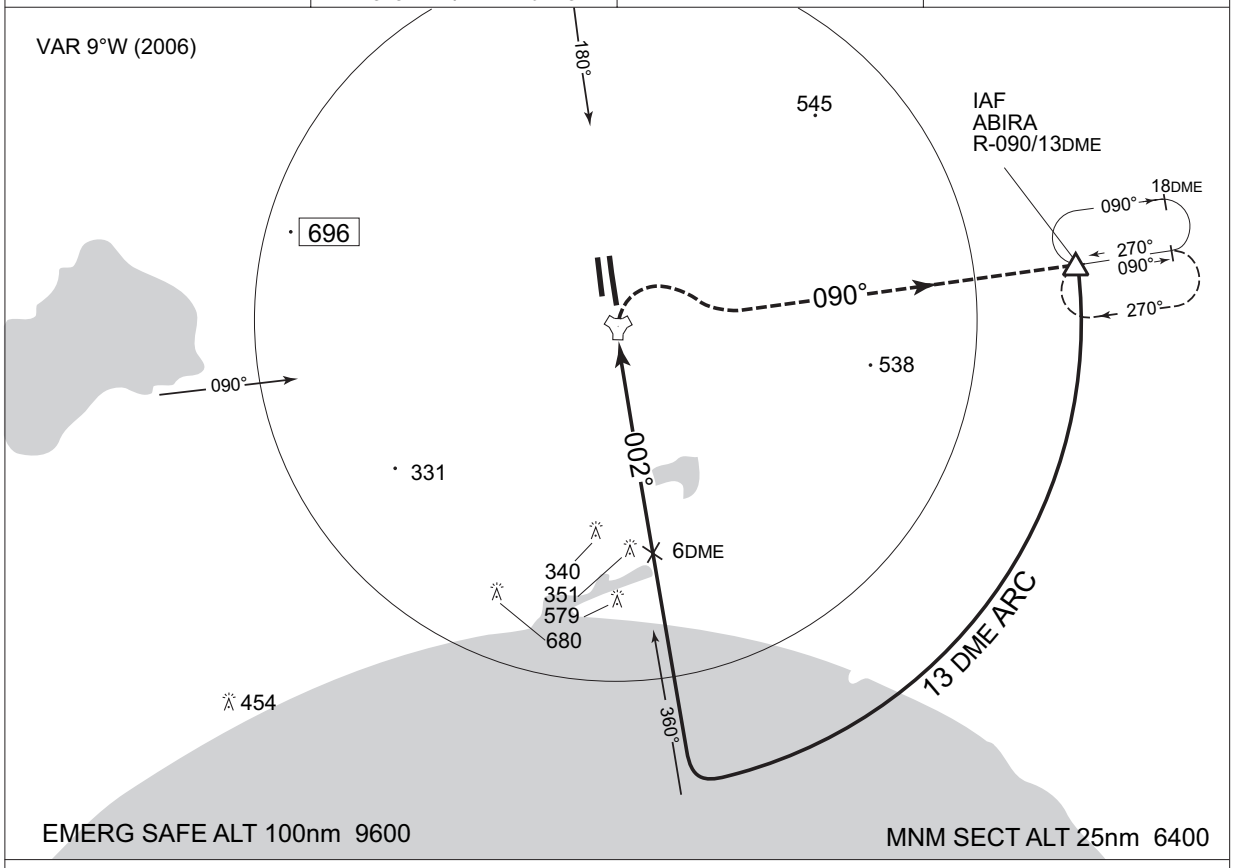
MINIMA THR elev. 70 AD elev. 89

CAT			CIRCLING	
	MDA(H)	RVR/ CMV	MDA(H)	VIS
A	600 (530)	1000	600 (511)	1600
B		1200		
C				2400
D		1600		3200

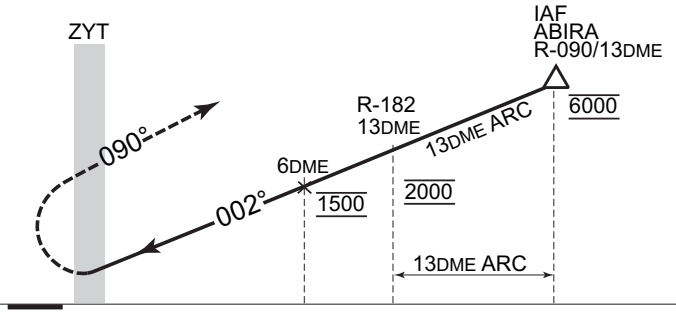
INSTRUMENT APPROACH CHART

RJCJ / CHITOSE TACAN NR.5 RWY 36R

CHITOSE APP	CHITOSE TACAN	CHITOSE TOWER	RADAR AVAILABLE
124.7 - 120.1 362.3 - 305.7	CH-29 ZYT *42°45´52´´N/141°40´25´´E*	126.2 - 118.2 236.8 - 304.5 - 121.7G	



MISSED APPROACH
At ZYT TACAN, turn right climb via ZYT R-090 to 18DME fix to 4000ft and hold.
Contact CHITOSE APP.



MINIMA THR elev. 85 AD elev. 89

CAT			CIRCLING	
	MDA(H)	RVR/ CMV	MDA(H)	VIS
A	600 (511)	1000	600 (511)	1600
B		1200		
C				2400
D		1600		3200