

General Info

Changsha, CHN

N 28°11.2' E113°13.3' Mag Var: 2.7°

Elevation: 217'

Public, Control Tower, IFR, Landing Fee, Customs

Fuel: Jet A-1

Time Zone Info: GMT+8:00 no DST

Runway Info

Runway 18-36 8530' x 148' concrete

Runway 18 (180.0m) TDZE 217'

Lights: Edge, ALS, Centerline

Stopway Distance 197'

Runway 36 (360.0m) TDZE 197'

Lights: Edge, ALS, Centerline

Right Traffic

Stopway Distance 197'

Communications Info

ATIS **128.8**

Huanghua Tower **128.0** Secondary

Huanghua Tower **118.55** MF

Huanghua Ground Control **121.75**

Changsha Approach Control **120.6** Secondary

Changsha Approach Control **119.65**

Notebook Info

ZGHA/HHA
HUANGHUA

JEPPESSENCHANGSHA, PR OF CHINA
24 AUG 07 **10-2** **Eff 30 Aug** **STAR**

*ATIS
128.8

Apt Elev
217'

Alt Set: hPa

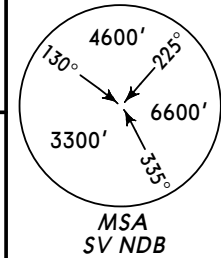
Trans level: FL118

Trans alt:

9850'

10830' 1031 hPa or above

8860' 979 hPa or below



LIG 01A, LIG 02A, LKO 01A
RWY 36 ARRIVALS

LONGKOU
D *115.8 LKO
N29 55.0 E113 41.8
*395 KG
N29 57.0 E113 46.0

FL CONVERSION
FL138 FL4200m
FL118 FL3600m

FT/METER CONVERSION
QNH
10830' - 3300m
9850' - 3000m
8860' - 2700m
7880' - 2400m
6890' - 2100m
4930' - 1500m
3940' - 1200m

(IAF)
CHANGSHA
*345 SV
N28 13.0 E113 20.9
At 3940'

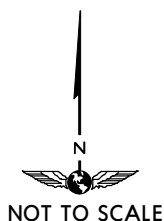
CHANGSHA
D *113.3 CSX
N28 12.2 E113 13.0

LUMKO
N28 29.2 E113 35.4
At 7880'

(IAF)
D25.3 CSX
N27 51.0 E113 28.0
At 6890'

LILING
D *112.4 LIG
N27 37.6 E113 31.6
*361 LZ
N27 38.0 E113 32.0

CAT C & D
At FL138
or at FL118
CAT B
At FL118
CAT A
At enroute Alt



ZGHA/HHA
HUANGHUA

JEPPESEN CHANGSHA, PR OF CHINA
24 AUG 07 **(10-2A)** **Eff 30 Aug** **STAR**

*ATIS
128.8

Apt Elev
217'

Alt Set: hPa

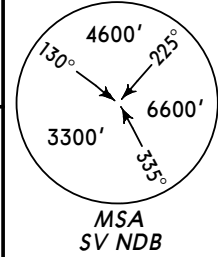
Trans level: FL118

Trans alt:

9850'

10830' 1031 hPa or above

8860' 979 hPa or below



LIG 11A, LKO 11A, LKO 12A
RWY 18 ARRIVALS

FL CONVERSION
FL138 FL4200m
FL118 FL3600m

FT/METER CONVERSION
QNH
10830' - 3300m
9850' - 3000m
8860' - 2700m
7880' - 2400m
4930' - 1500m
3940' - 1200m

CHANGSHA
D *113.3 CSX
N28 12.2 E113 13.0

(IAF)
D13 CSX
N28 20.8 E113 24.1
At 3940'

(IAF)
CHANGSHA
*345 SV
N28 13.0 E113 20.9
At 3940'

LONGKOU
D *115.8 LKO
N29 55.0 E113 41.8
*395 KG
N29 57.0 E113 46.0

AKUBA
N28 45.2 E113 36.6

LUMKO
N28 29.2 E113 35.4
At 7880'

LILING
D *112.4 LIG
N27 37.6 E113 31.6
*361 LZ
N27 38.0 E113 32.0

CAT C & D
At FL138
or at FL118

CAT B
At FL118

CAT A
At enroute Alt

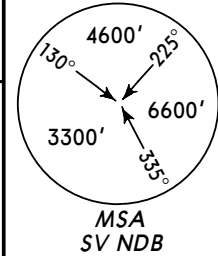


ZGHA/HHA
HUANGHUA

JEPPESSEN CHANGSHA, PR OF CHINA
24 AUG 07 **10-3** **Eff 30 Aug** **SID**

Apt Elev
217'

Trans level: FL118 Trans alt: 9850'
10830' 1031 hPa or above
8860' 979 hPa or below



LIG 01D, LKO 01D
RWY 36 DEPARTURES

FT/METER CONVERSION

QNH

660'	-	200m
1150'	-	350m
2960'	-	900m
6890'	-	2100m
8860'	-	2700m
9850'	-	3000m
10830'	-	3300m

FL CONVERSION

FL118	FL3600m
FL128	FL3900m
FL148	FL4500m

LONGKOU
D ***115.8 LKO**
N29 55.0 E113 41.8
***395 KG**
N29 57.0 E113 46.0



R186°

70

AKUBA
N28 45.2 E113 36.6

LUMKO
N28 29.2 E113 35.4
At or above
6890'

16

006°

D25.8

12.8

D13 CSX
N28 20.8 E113 24.1

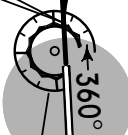
052°

CHANGSHA
*345 SV
N28 13.0 E113 20.9
At or above
2960'

At 1150'

LKO 01D

Turn at 660'



CHANGSHA
D ***113.3 CSX**
N28 12.2 E113 13.0

15

LKO 01D

8

LIG 01D



167°

36

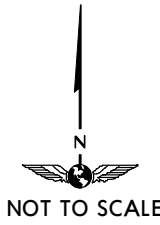


LILING
D ***112.4 LIG**
N27 37.6 E113 31.6
***361 LZ**
N27 38.0 E113 32.0

CAT C & D
At FL128
or at FL148

CAT B
At 8860'

CAT A
At enroute Alt



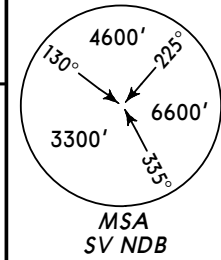
NOT TO SCALE

ZGHA/HHA
HUANGHUA

JEPPESSEN CHANGSHA, PR OF CHINA
24 AUG 07 **(10-3A)** **Eff 30 Aug** **SID**

Apt Elev
217'

Trans level: FL118 Trans alt: 9850'
10830' 1031 hPa or above
8860' 979 hPa or below



LIG 11D, LKO 11D
RWY 18 DEPARTURES



LONGKOU
D *115.8 **LKO**
N29 55.0 E113 41.8
*395 **KG**
N29 57.0 E113 46.0



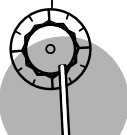
R186°
70

AKUBA
N28 45.2 E113 36.6

16
006°

LUMKO
N28 29.2 E113 35.4
At or above
6890'

CHANGSHA
D *113.3 **CSX**
N28 12.2 E113 13.0



180°
5



CHANGSHA
*345 **SV**
N28 13.0 E113 20.9
At or above
2960'

LKO 11D
15
014°

LIG 11D
32
R337°

LILING
D *112.4 **LIG**
N27 37.6 E113 31.6
*361 **LZ**
N27 38.0 E113 32.0

CAT C & D
At FL128
or at FL148

CAT B
At 8860'

CAT A
At enroute Alt

FT/METER CONVERSION

QNH	
2960'	- 900m
6890'	- 2100m
8860'	- 2700m
9850'	- 3000m
10830'	- 3300m

FL CONVERSION

FL118	FL3600m
FL128	FL3900m
FL148	FL4500m

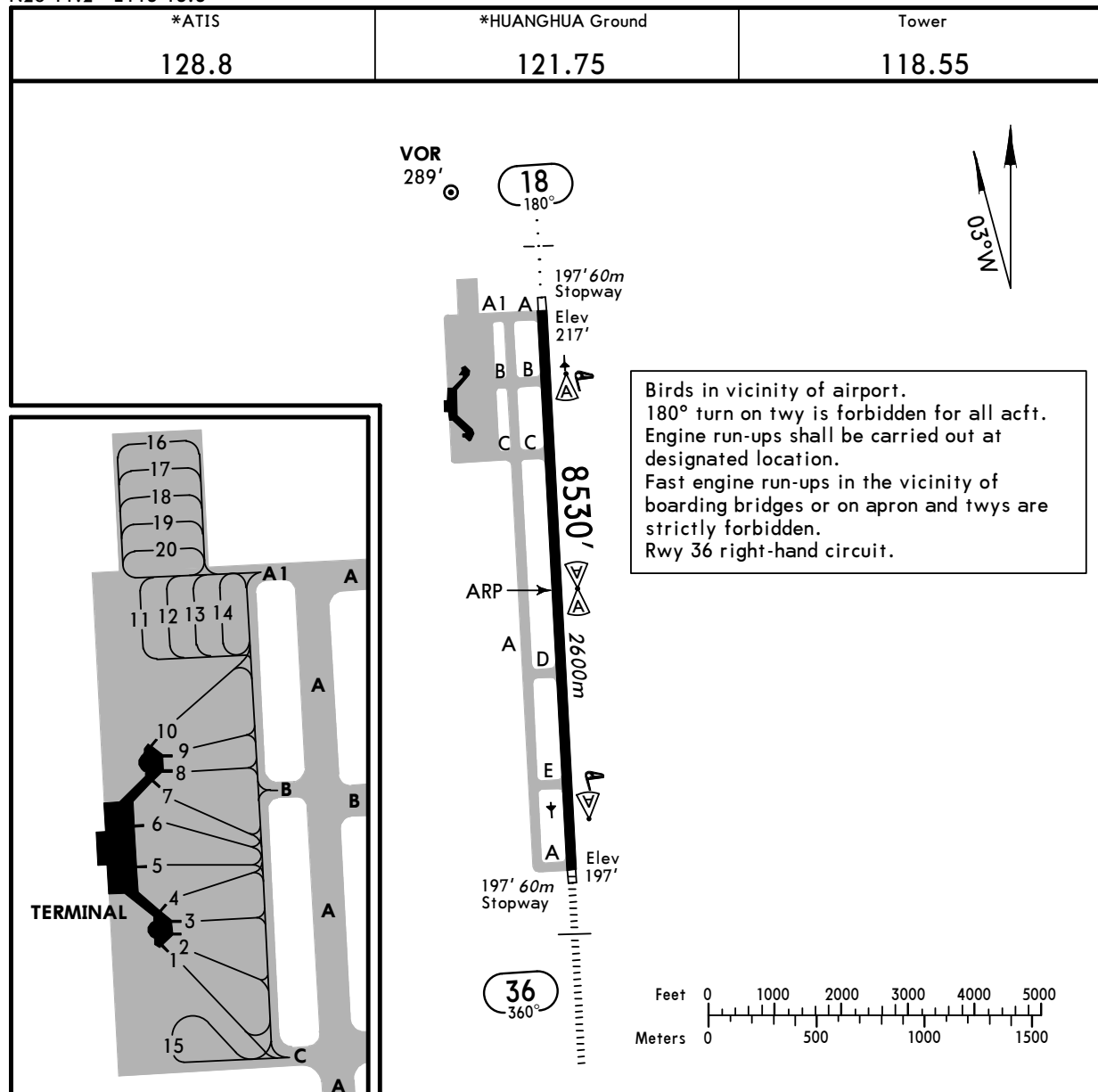
ZGHA/HHA

Apt Elev **217'**
N28 11.2 E113 13.3

JEPPESEN CHANGSHA, PR OF CHINA

6 JUL 07 **(10-9)**

HUANGHUA



ADDITIONAL RUNWAY INFORMATION

RWY					USABLE LENGTHS		TAKE-OFF	WIDTH
					LANDING BEYOND			
	Threshold	Glide Slope						
18	HIRL (60m) HIALS CL (30m) PAPI-L ① RVR				7449' 2270m			148'
36	HIRL (60m) HIALS CL (30m) SFL PAPI-L ① RVR				7530' 2295m			45m

① (angle 3.0°).

TAKE-OFF

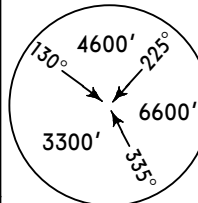
	All Rwys	
	RL	NIL (DAY only)
2 TURB Eng or 3 & 4 Eng	RVR 400m	RVR 500m
Other	VIS 1600m	

ZGHA/HHA
HUANGHUA

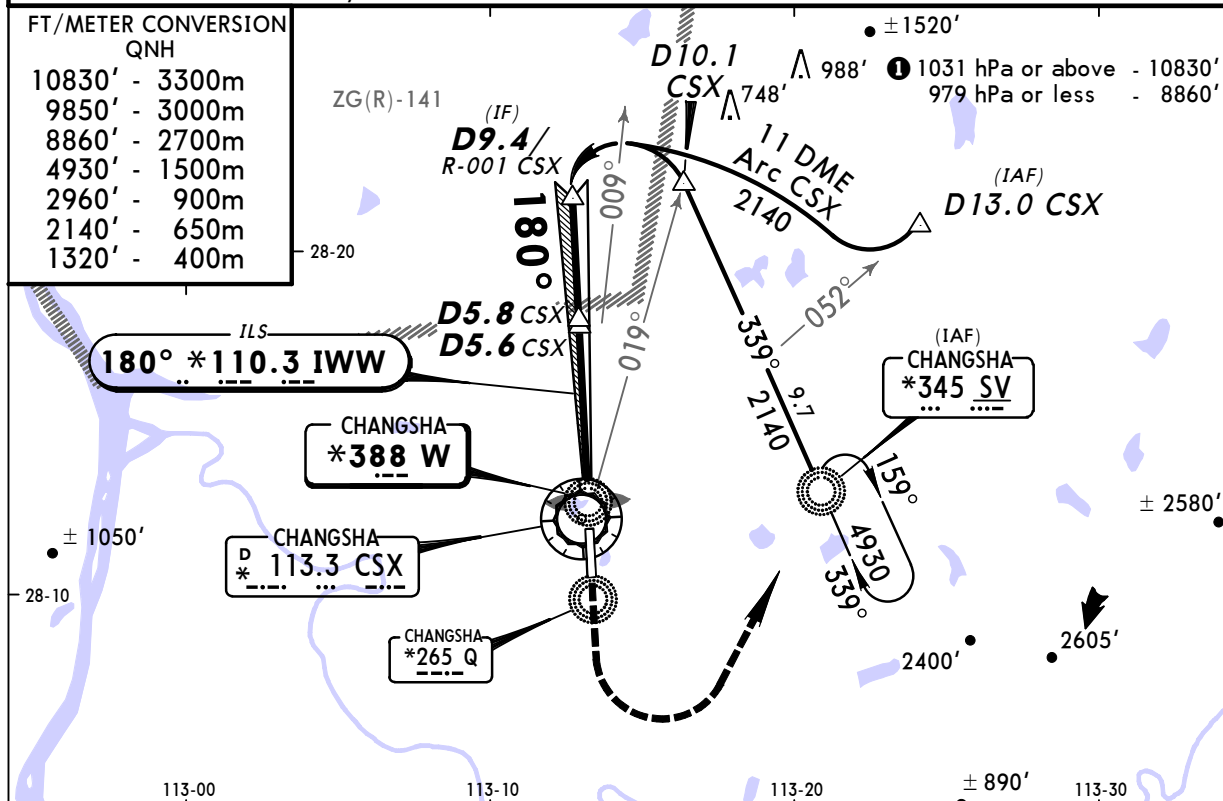
JEPPESSEN
9 DEC 05 **(11-1)**

CHANGSHA, PR OF CHINA
ILS DME or NDB DME Rwy 18

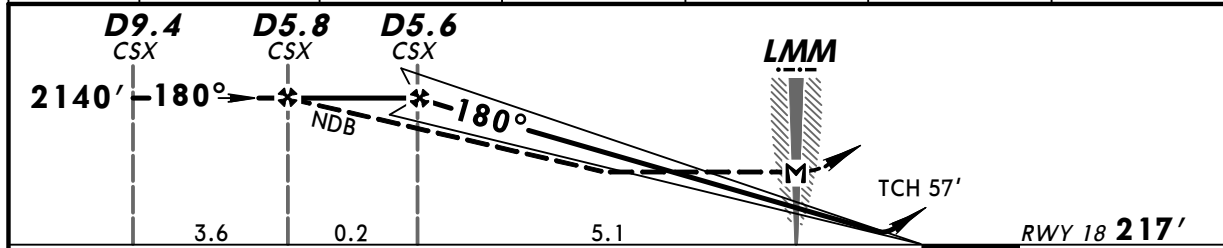
BRIEFING STRIP

*ATIS 128.8		CHANGSHA Approach 119.65		*HUANGHUA Tower 118.55		*Ground 121.75			
LOC IWW *110.3	Final Apch Crs 180°	GS D5.6 CSX 2140'(1923')	ILS DA(H) 417'(200')	Apt Elev 217' RWY 217'					
NDB W *388		Minimum Alt D5.8 CSX 2140'(1923')	NDB MDA(H) 670'(453')						
MISSED APCH: Climb STRAIGHT AHEAD to 1320', then turn LEFT to reach SV NDB at 2960', or as directed.								MSA SV NDB	

Alt Set: hPa Rwy Elev: 8 hPa Trans level: FL 118 Trans alt: 9850' **1**



LOC (GS out)	CSX DME	5.0	4.0	3.0	2.0	1.0
	ALTITUDE	1990'	1670'	1350'	1030'	710'
NDB DME	CSX DME	5.0	4.0	3.0	2.0	1.0
	ALTITUDE	1900'	1600'	1290'	990'	680'



Gnd speed-Kts	70	90	100	120	140	160		
ILS GS 3.00° or LOC Desc Grad 5.2%	377	485	539	647	755	862		
NDB Desc Grad 5.0%	354	456	506	608	709	810	MAP at LMM	

STRAIGHT-IN LANDING RWY 18				CIRCLE-TO-LAND			
ILS		LOC (GS out)		NDB		CIRCLE-TO-LAND	
DA(H) 417' (200')		MDA(H) 670' (453')		MDA(H) 670' (453')		Max Kts. MDA(H)	
FULL	ALS out	LMM out	ALS out			100	780' (563') 1600m
1200m		1200m	RVR 1500m VIS 1600m	1200m	RVR 1500m VIS 1600m	135	
		2000m	2000m	2000m	2000m	180	960' (743') 3600m
		2400m	2400m	2400m	2400m	205	960' (743') 4000m

PANS OPS 4

ZGHA/HHA
HUANGHUA

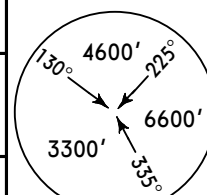
JEPPESSEN CHANGSHA, PR OF CHINA
9 DEC 05 **(11-2)**
ILS DME Rwy 36

BRIEFING STRIP

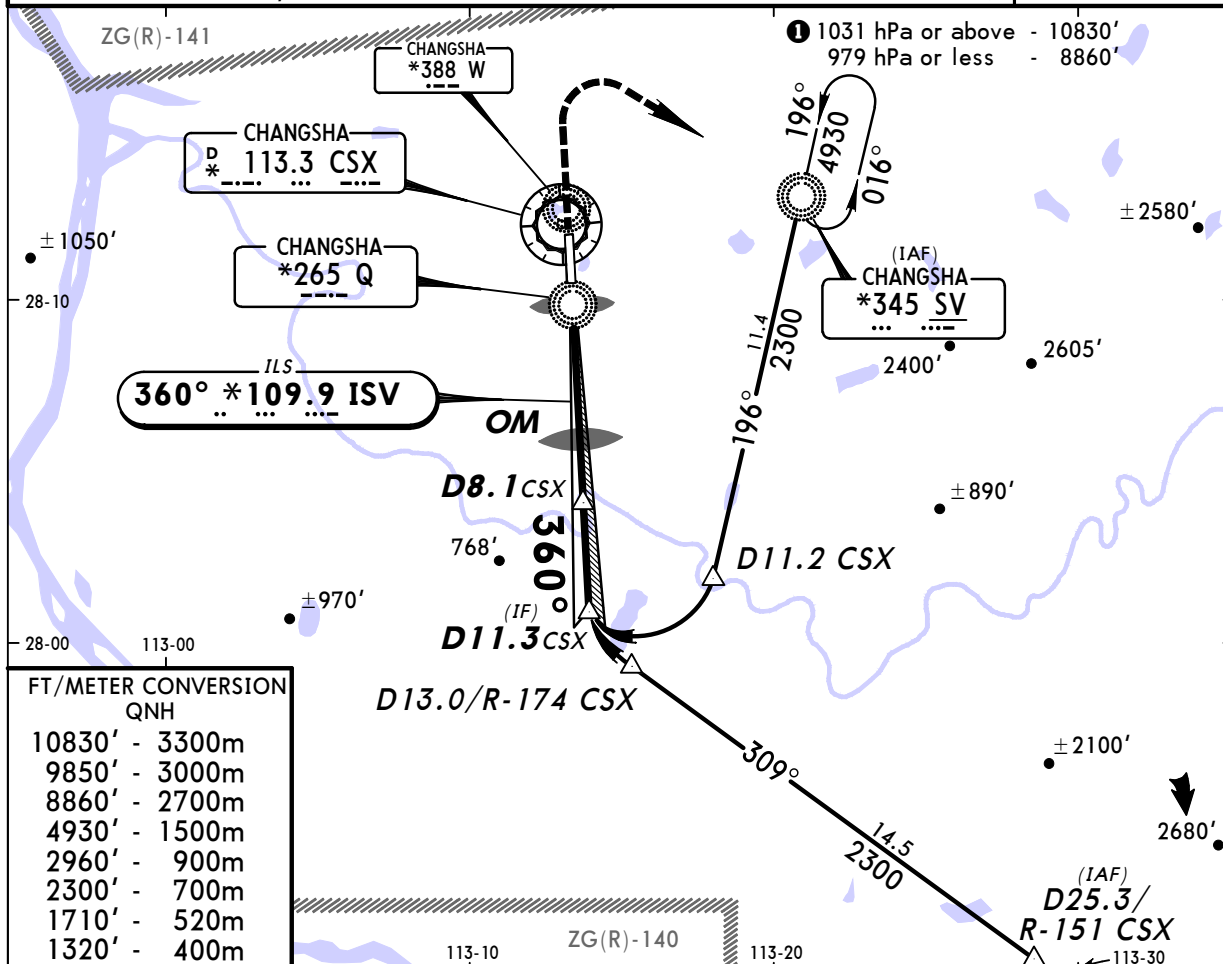
*ATIS 128.8	CHANGSHA Approach 119.65	*HUANGHUA Tower 118.55	*Ground 121.75
LOC ISV *109.9	Final Aptch Crs 360°	GS OM 1706' (1509')	ILS DA(H) Refer to Minimums
			Apt Elev 217' RWY 197'

MISSED APCH: Climb STRAIGHT AHEAD to 1320', then turn RIGHT to reach SV NDB at 2960', or as directed.

Alt Set: hPa Rwy Elev: 7 hPa Trans level: FL 118 Trans alt: 9850' **①**



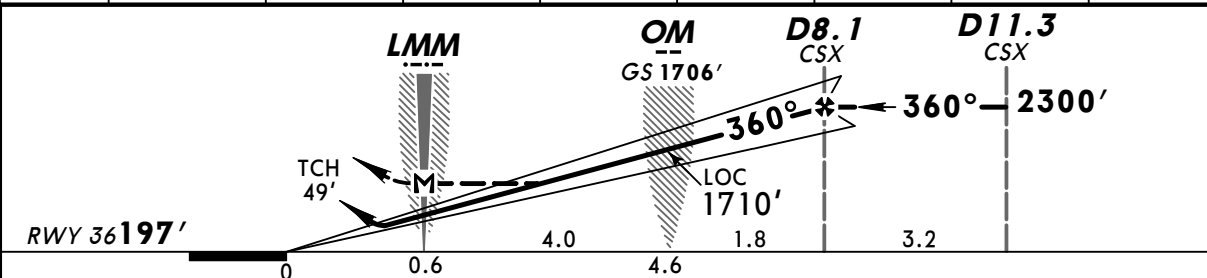
MSA
SV NDB



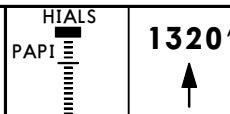
FT/METER CONVERSION
QNH

10830'	3300m
9850'	3000m
8860'	2700m
4930'	1500m
2960'	900m
2300'	700m
1710'	520m
1320'	400m

LOC	CSX DME	2.0	3.0	4.0	5.0	6.0	7.0	8.0
(GS out)	ALTITUDE	320'	640'	960'	1280'	1600'	1920'	2240'



Gnd speed-Kts	70	90	100	120	140	160
ILS GS 3.00° or	377	485	539	647	755	862
LOC Descent Gradient 5.2%						
MAP at LMM						



STRAIGHT-IN LANDING RWY 36				CIRCLE-TO-LAND	
ILS		LOC (GS out)		MDA(H)	
DA(H)	C: 400' (203')	MDA(H) 600' (403')			
AB: 397' (200')	D: 410' (213')				
FULL	ALS out	LMM out	ALS out	Max Kts	MDA(H)
A				100	
B				135	
C				180	
D				205	
RVR 720m VIS 800m	1200m	RVR 720m VIS 800m	RVR 1500m VIS 1600m		780' (563') 1600m
		1200m	2000m		960' (743') 3600m
					960' (743') 4000m

PANS OPS 4

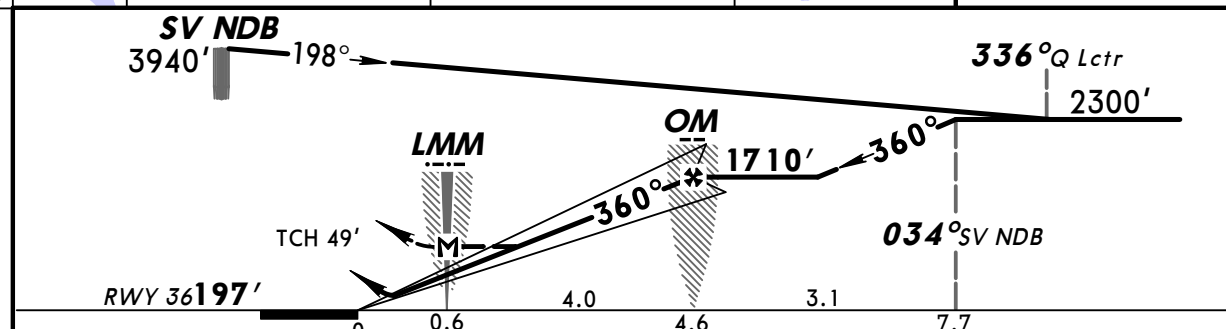
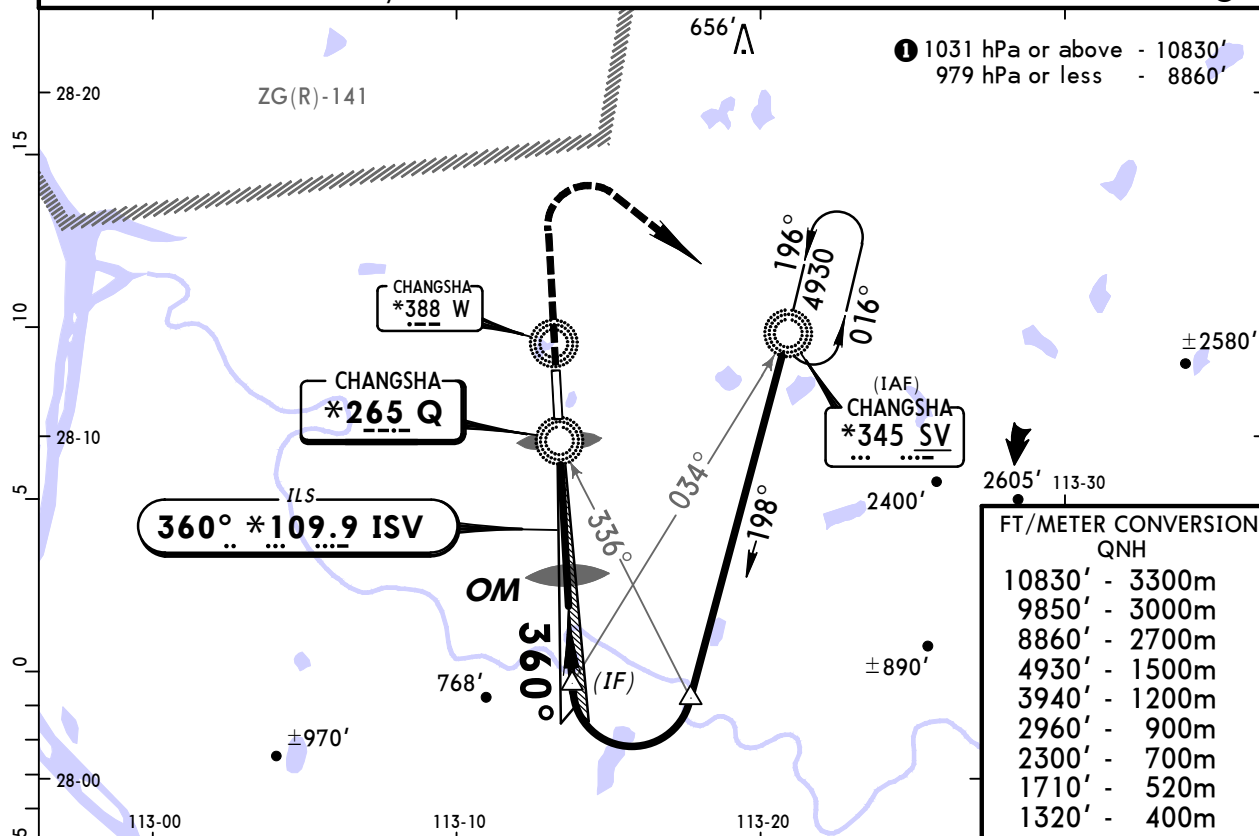
ZGHA/HHA
HUANGHUA

JEPPE
9 DEC 05 (11-3)

JEPPESEN CHANGSHA, PR OF CHINA
EC 05 (11-3) ILS or NDB Rwy 36

*ATIS 128.8		CHANGSHA Approach 119.65		*HUANGHUA Tower 118.55		*Ground 121.75	
LOC ISV *109.9	Final Apch Crs 360°	GS/ Minimum Alt OM 1710'(1513')	ILS DA(H) Refer to Minimums	Apt Elev 217' RWY 197'			
Lctr Q *265			NDB MDA(H) 600'(403')				
MISSED APCH: Climb STRAIGHT AHEAD to 1320', then turn RIGHT to reach SV NDB at 2960', or as directed.						MSA SV NDB	

Alt Set: hPa Rwy Elev: 7 hPa Trans level: FL 118 Trans alt: 9850' **1**



Gnd speed-Kts	70	90	100	120	140	160		HIALS PAPI	1320' ↑
ILS GS 3.00° or LOC Descent Gradient 5.2%	377	485	539	647	755	862			
NDB Descent Gradient 5.0%	354	456	506	608	709	810			

STRAIGHT-IN LANDING RWY 36							CIRCLE-TO-LAND			
ILS			LOC (GS out) I		NDB		Max Kts	MDA(H) _____		
DA(H)	C: 400' (203')	D: 410' (213')	MDA(H) 600' (403')		MDA(H) 600' (403')					
FULL		ALS out		ALS out		ALS out				
A	RVR 720m VIS 800m	1200m	RVR 720m VIS 800m	RVR 1500m VIS 1600m	1200m	RVR 1500m VIS 1600m	100	780' (563') 1600m		
B							135			
C					1200m	2000m	RVR 1500m VIS 1600m	2000m	180	960' (743') 3600m
D										

1 LMM_{out}: NOT AUTH.

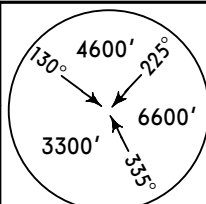
CHANGES: Approach frequency added.

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ZGHA/HHA
HUANGHUA

JEPPESEN CHANGSHA, PR OF CHINA
9 DEC 05 **(13-1)**
VOR DME Rwy 18

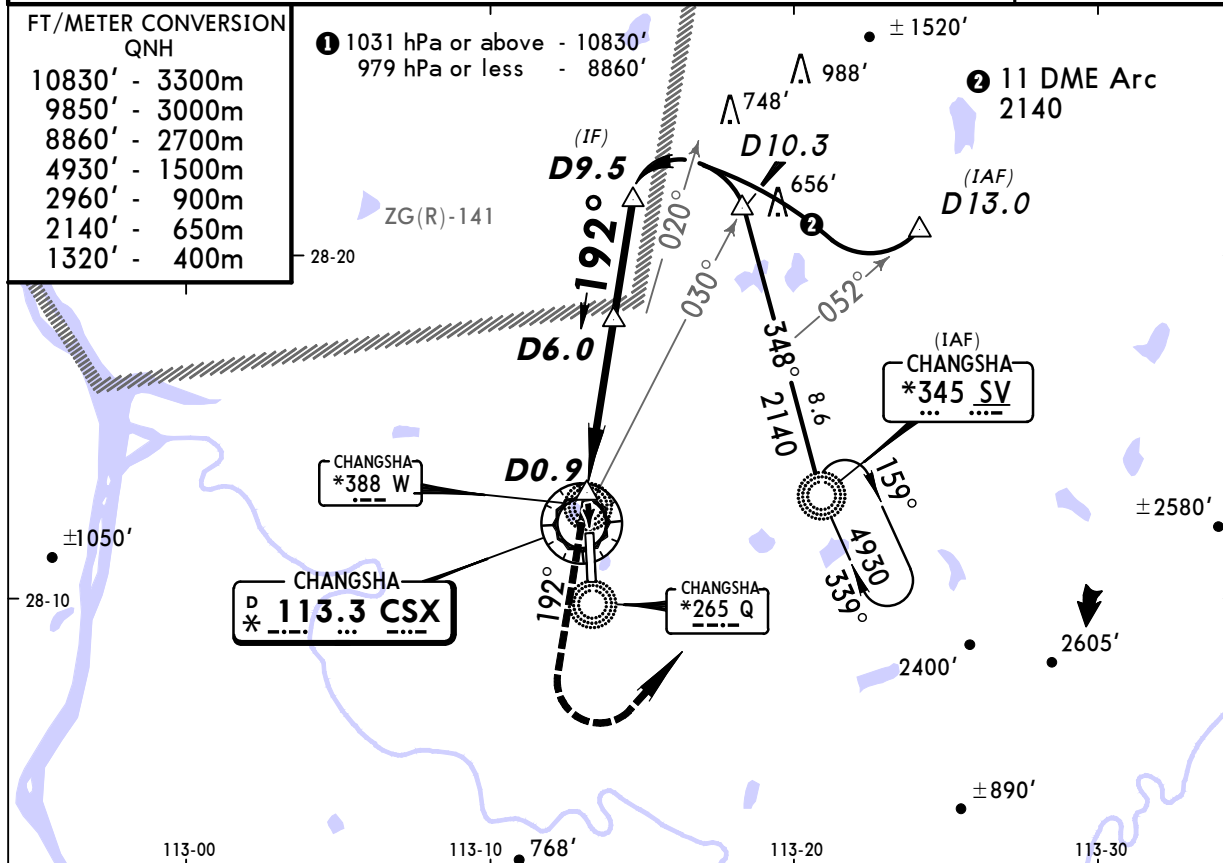
BRIEFING STRIP

*ATIS 128.8		CHANGSHA Approach 119.65		*HUANGHUA Tower 118.55		*Ground 121.75	
VOR CSX *113.3	Final Apch Crs 192°	Minimum Alt D6.0 2140' (1923')	MDA(H) 670' (453')	Apt Elev 217' RWY 217'			
MISSED APCH: Climb STRAIGHT AHEAD to 1320', then turn LEFT to reach SV NDB at 2960', or as directed.							
Alt Set: hPa		Rwy Elev: 8 hPa		Trans level: FL 118		Trans alt: 9850' ①	
MSA SV NDB							

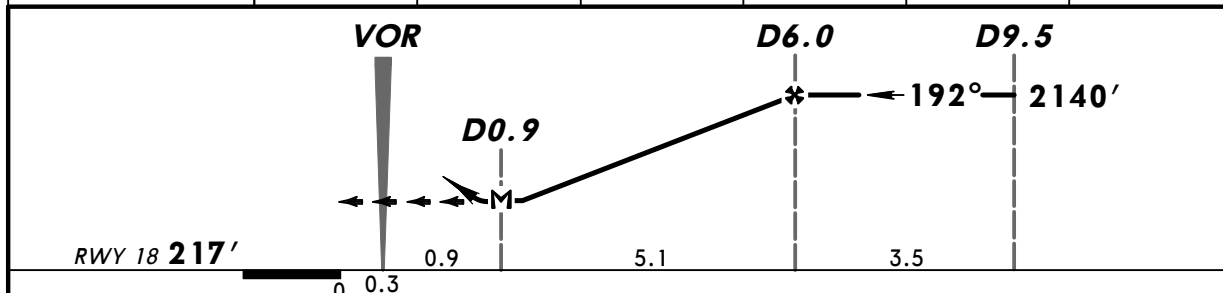
FT/METER CONVERSION
QNH

10830'	-	3300m
9850'	-	3000m
8860'	-	2700m
4930'	-	1500m
2960'	-	900m
2140'	-	650m
1320'	-	400m

① 1031 hPa or above - 10830'
979 hPa or less - 8860'



CSX DME	1.0	2.0	3.0	4.0	5.0	6.0
ALTITUDE	670'	970'	1270'	1570'	1870'	2160'



Gnd speed-Kts	70	90	100	120	140	160	ALS PAPI ↑	1320'
Descent Gradient 4.9%	347	447	496	595	695	794		
MAP at D0.9								

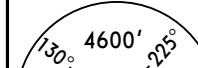
STRAIGHT-IN LANDING RWY 18				CIRCLE-TO-LAND			
MDA(H) 670' (453')				MDA(H)			
ALS out				Max Kts			
A				100	780'(563')		
B	2300m			135	2300m		
C				180	960'(743')		
D	2400m			205	960'(743')		

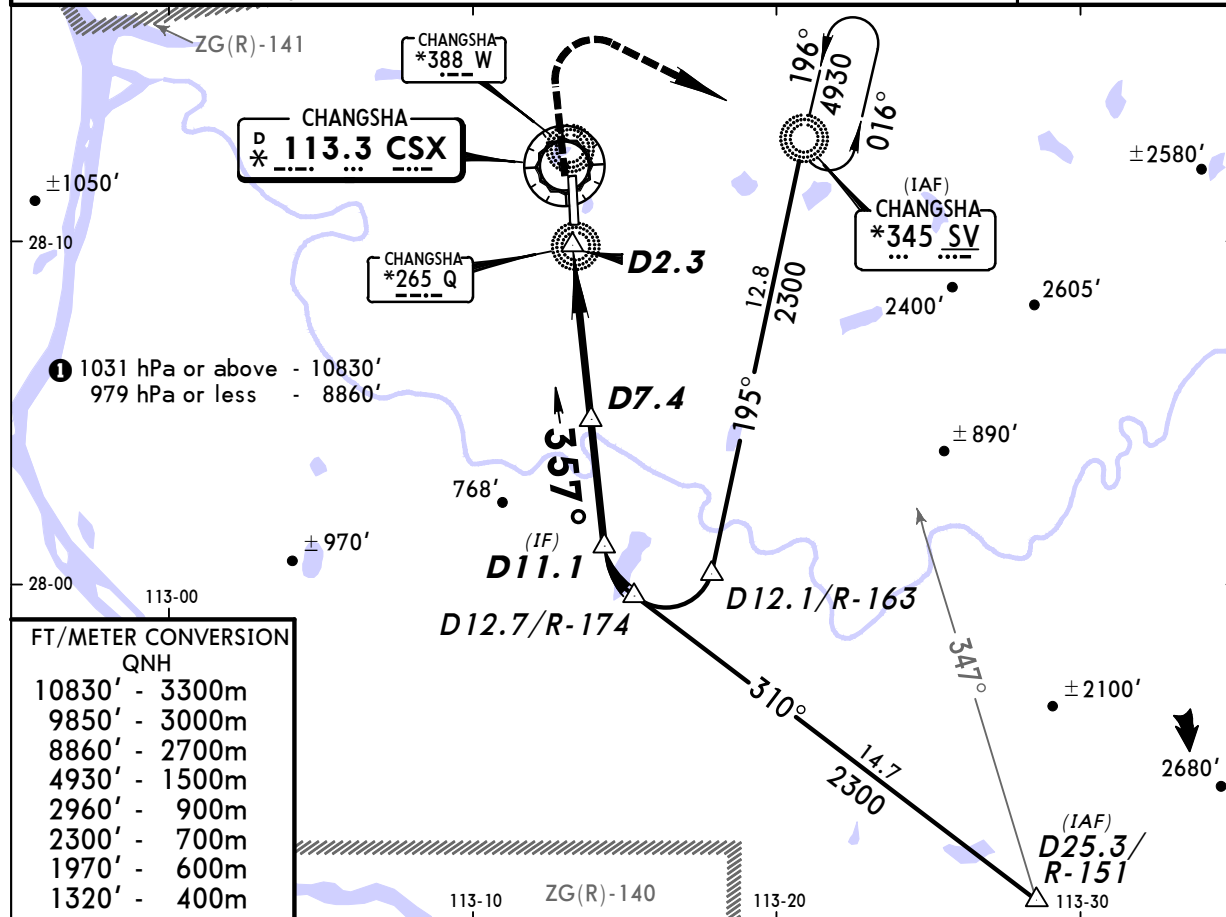
PANS OPS 4

ZGHA/HHA
HUANGHUA

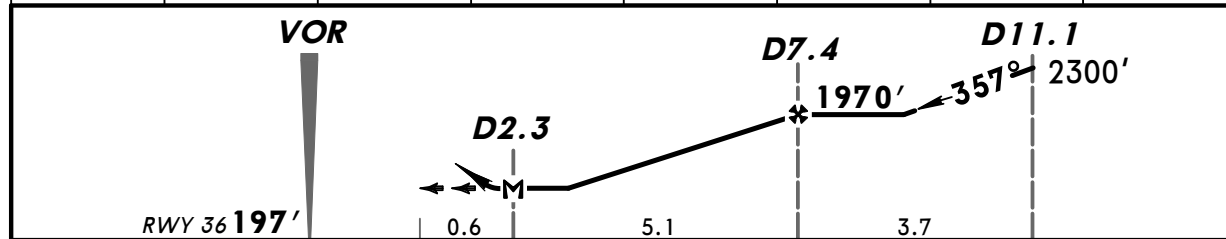
JEPPESSEN CHANGSHA, PR OF CHINA
9 DEC 05 **(13-2)**
VOR DME Rwy 36

BRIEFING STRIP

*ATIS		CHANGSHA Approach		*HUANGHUA Tower		*Ground	
128.8		119.65		118.55		121.75	
VOR CSX *113.3	Final Apch Crs 357°	Minimum Alt D7.4 1970'(1773')	MDA(H) 600'(403')	Apt Elev 217' RWY 197'			
MISSED APCH: Climb STRAIGHT AHEAD to 1320', then turn RIGHT to reach SV NDB at 2960', or as directed.							
Alt Set: hPa		Rwy Elev: 7 hPa		Trans level: FL 118			
						MSA SV NDB	



CSX DME	2.0	3.0	4.0	5.0	6.0	7.0	8.0
ALTITUDE	320'	620'	930'	1230'	1540'	1840'	2140'



Gnd speed-Kts	70	90	100	120	140	160		1320'
Descent Gradient 5.0%	354	456	506	608	709	810		
MAP at D2.3								

STRAIGHT-IN LANDING RWY 36				CIRCLE-TO-LAND			
MDA(H) 600' (403')							
ALS out				Max Kts	MDA(H)		
A	RVR 720m	RVR 1500m		100	780'(563')		1600m
B	VIS 800m	RVR 1500m		135			
C	1200m	2000m		180	960'(743')		3600m
D	RVR 1500m			205	960'(743')		4000m
	VIS 1600m						

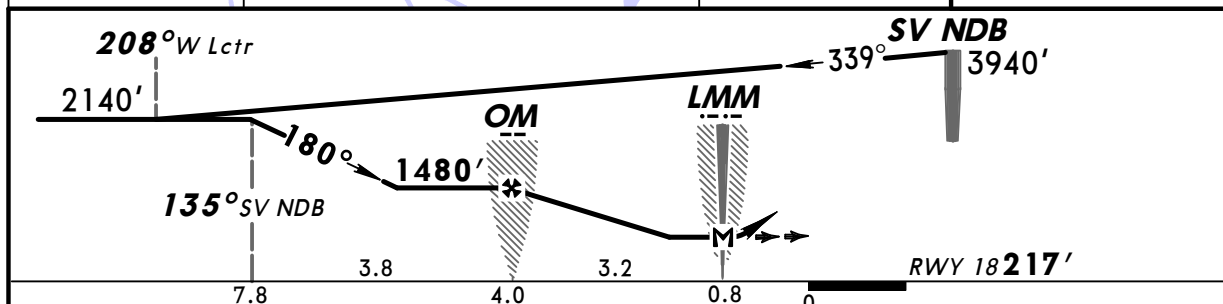
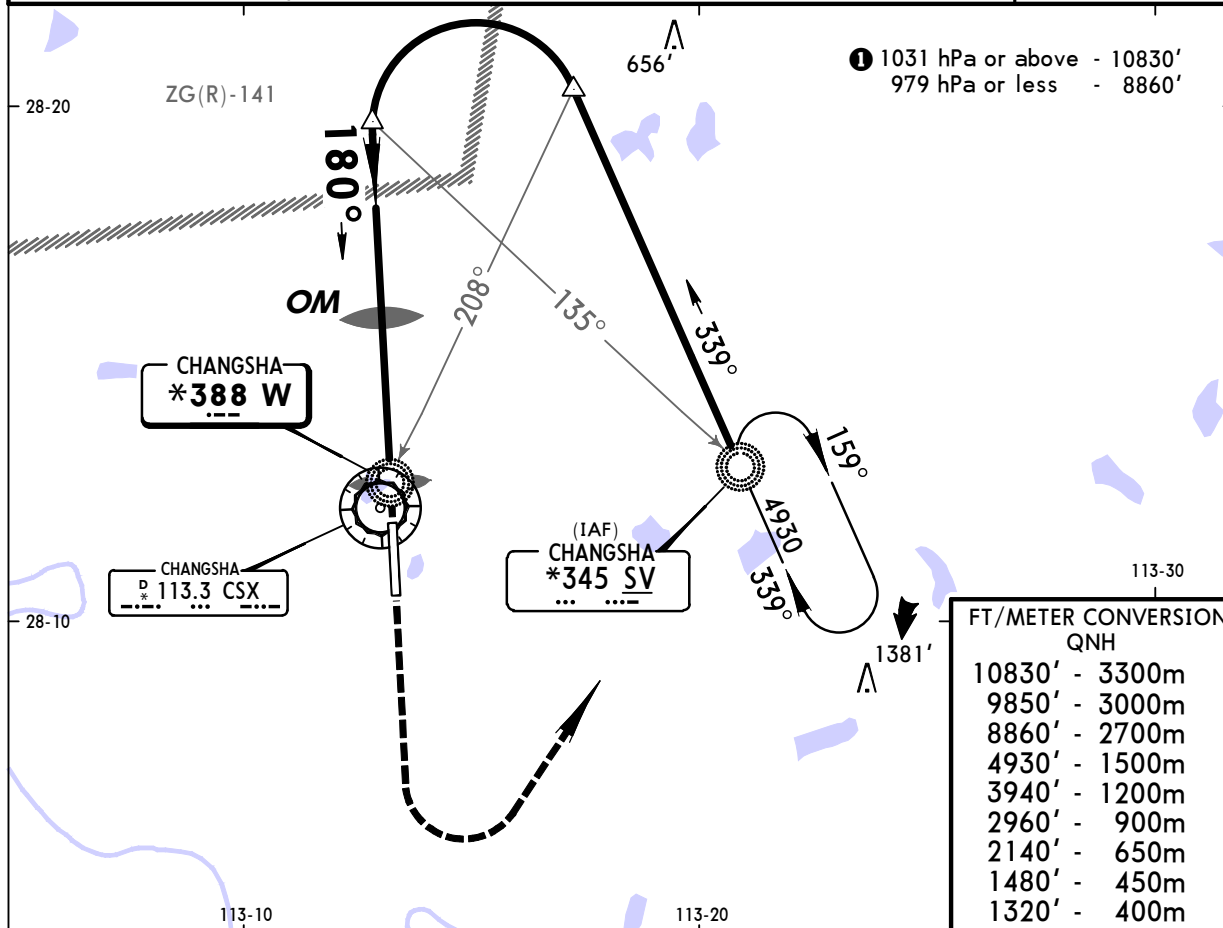
PANS OPS 4

ZGHA/HHA
HUANGHUA

JEPPESSEN CHANGSHA, PR OF CHINA
9 DEC 05 (16-1) **NDB Rwy 18**

BRIEFING STRIP

*ATIS 128.8		CHANGSHA Approach 119.65		*HUANGHUA Tower 118.55		*Ground 121.75	
<i>Lctr</i> <i>W</i> *388	<i>Final</i> <i>Apch Crs</i> 180°	<i>Minimum Alt</i> <i>OM</i> 1480' (1263')	<i>MDA(H)</i> 670' (453')	<i>Apt Elev</i> 217' <i>RWY</i> 217'			
MISSED APCH: Climb STRAIGHT AHEAD to 1320', then turn LEFT to reach SV NDB at 2960', or as directed.							
Alt Set: hPa		Rwy Elev: 8 hPa		Trans level: FL 118			
MSA SV NDB							



Gnd speed-Kts	70	90	100	120	140	160	ALS PAPI 1320'
Descent Gradient 5.0%	354	456	506	608	709	810	
MAP at LMM							

STRAIGHT-IN LANDING RWY 18			CIRCLE-TO-LAND	
MDA(H) 670' (453')			Max Kts	MDA(H)
ALS out			100	780' (563') 1600m
A	1200m	RVR 1500m VIS 1600m	135	
B			180	960' (743') 3600m
C	2000m		205	960' (743') 4000m
D	2400m			

PANS OPS 4