

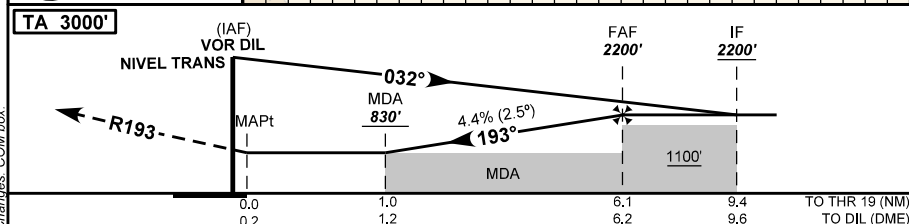
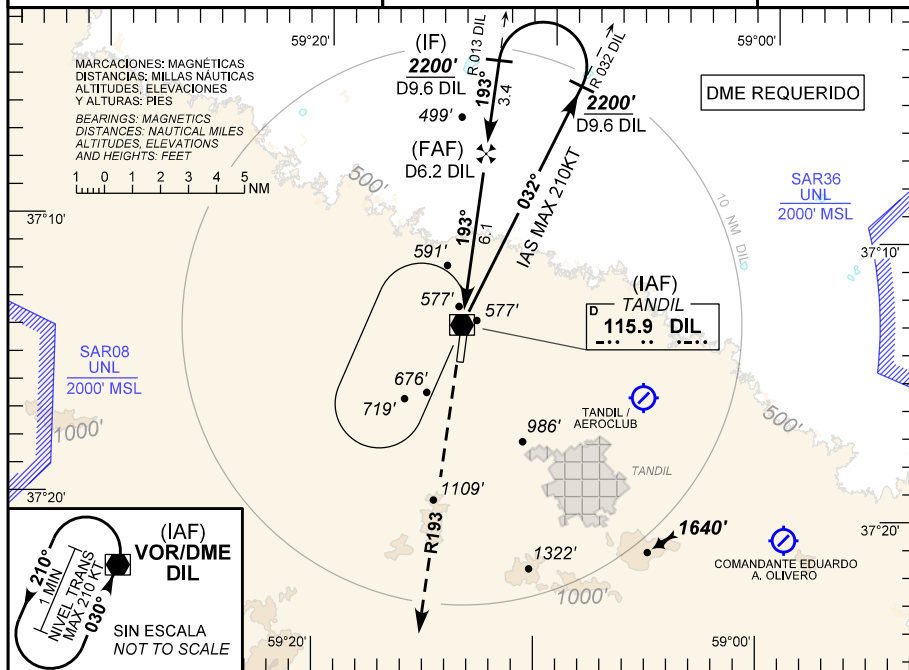
Carta de aproximación por instrumentos

TANDIL

Instrument approach chart

VOR Z RWY 19

TANDIL CTL 120.90 119.40		TANDIL APP / TWR 120.90 119.40		TANDIL GND 119.40		EMERG 121.50
VOR DIL 115.9	FINAL APCH CRS 193°	ALTITUD MNM FAF 2200' (1652')	MDA (H) 830' (282')	AD Elev THR Elev	576' 548'	07° W (2018)  3000'
Aproximación frustrada: ASC sobre R193 DIL para 3000 ft y seguir instrucciones del ATC. <i>Missed approach: Climb on R193 DIL to 3000 ft and proceed as directed by ATC.</i>						
NOTA: NIL.			RMK: NIL.			MSA 25 NM DIL



CAT	DIRECTA RWY 19 / <i>Straight in RWY 19</i>								Circulación Visual <i>Circle to land</i>			
	VOR/DME											
	MDA 830'				MDH 282'				CAT	MDA	MDH	VIS
	VIS								A	980'	404'	1900 M
	1600 M								B	1060'	494'	2800 M
A	1800 M								C	1380'	804'	3700 M
B									D	1510'	934'	4600 M
C												
D												
GS KT		90	110	130	150	160	DIST to MAPt	6,1	5	3	2	1,0
FAF - MAPt 6,1 NM		4:02	3:18	2:48	2:25	2:16	ALT	2200	1910	1380	1120	830
FPM		400	490	580	660	710	HGT	(1652)	(1362)	(832)	(572)	(282)

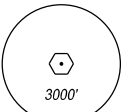
PLAN OPS Cambios: Recuadro COM. Changes: COM box.

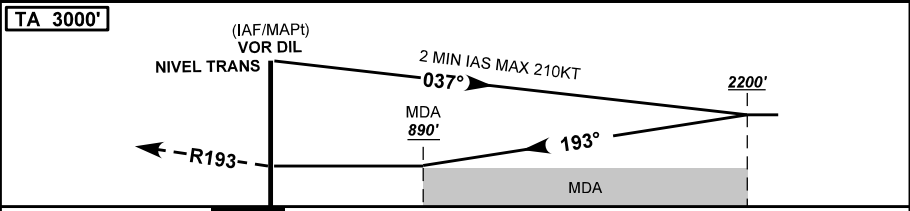
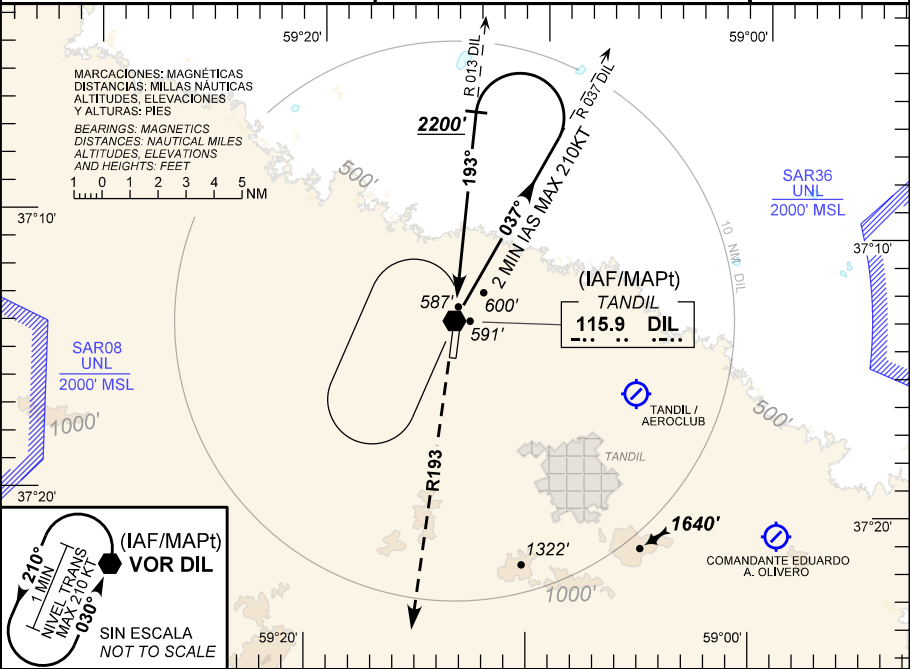
DIRECCIÓN REGULACIÓN NORMAS Y PROCEDIMIENTOS - DNINA

HÉROES DE MALVINAS (SAZT)
TANDIL

Carta de aproximación por instrumentos
Instrument approach chart

VOR Y RWY 19

TANDIL CTL 120.90 119.40		TANDIL APP / TWR 120.90 119.40		TANDIL GND 119.40		EMERG 121.50
VOR DIL 115.9	FINAL APCH CRS 193°	SIN FAF NO FAF	MDA (H) 890' (342')	AD Elev 576'	THR Elev 548'	07° W (2018) 
Aproximación frustrada: ASC sobre R193 DIL hasta 3000 ft y seguir instrucciones del ATC. Missed approach: Climb on R193 DIL to 3000 ft and proceed as directed by ATC.						MSA 25 NM DIL
NOTA: NIL			RMK: NIL			

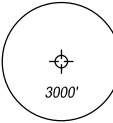


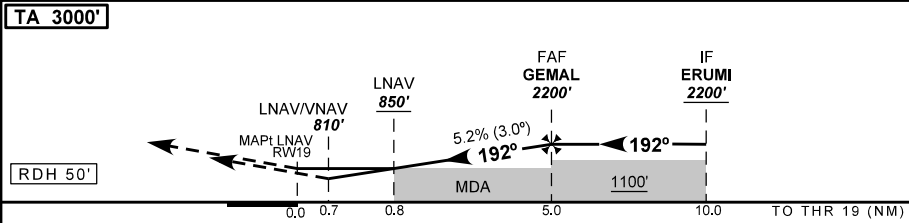
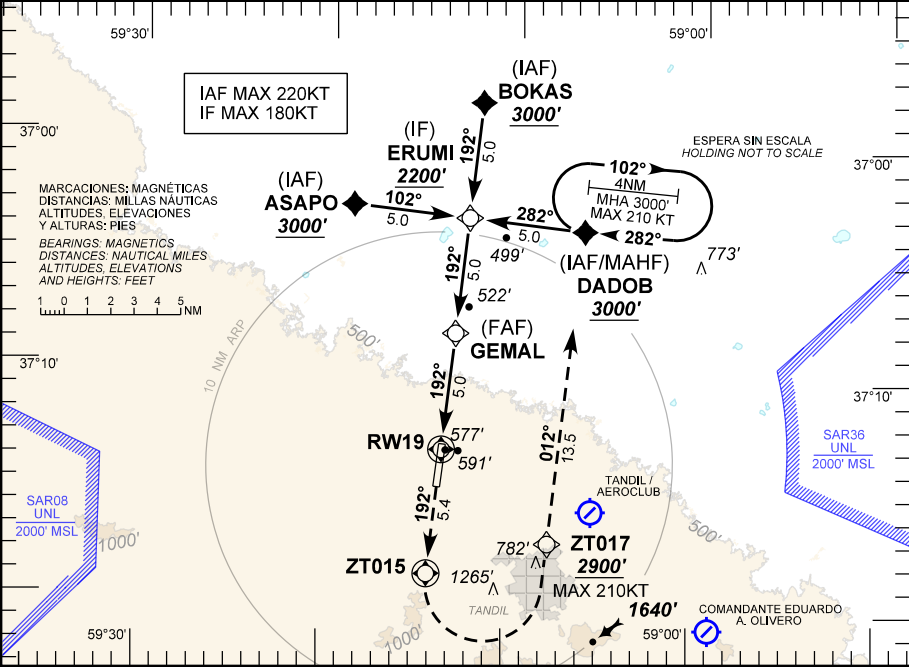
DIRECTA RWY 19 / <i>Straight in RWY 19</i>			Circulación Visual <i>Circle to land</i>			
CAT	VOR					
	MDA 890'	MDH 342'				
VIS			CAT	MDA	MDH	VIS
A	1800 M		A	980'	404'	1900 M
B			B	1070'	494'	2800 M
C	2000 M		C	1380'	804'	3700 M
D			D	1510'	934'	4600 M

HÉROES DE MALVINAS (SAZT)
TANDIL

Carta de aproximación por instrumentos
Instrument approach chart

RNP RWY 19 (LNAV/VNAV)

TANDIL CTL		TANDIL APP / TVWR		TANDIL GND		EMERG
120.90 119.40		120.90 119.40		119.40		121.50
RNP	FINAL APCH CRS	ALTITUD MNM GEMAL	LNAV / VNAV DA(H)	AD Elev	THR Elev	07° W (2018)  3000' MSA 25 NM ARP
	192°	2200' (1652')	810' (262')	576'	548'	
Aproximación frustrada: ASC sobre curso 192° hasta ZT015, viraje izquierda DCT ZT017 alcanzando MNM 2900 ft, luego seguir sobre curso 012° hasta DADOB a 3000 ft, HLDG y seguir instrucciones del ATC.						
Missed approach: Climb on track 192° to ZT015, turn left DCT ZT017 reaching MNM 2900 ft, then continue on track 012° to DADOB at 3000 ft, HLDG and proceed as directed by ATC.						
Para sistemas Baro VNAV no compensados, debajo de -10° C superior a 50° C N.A.			For uncompensated Baro VNAV system N.A. below -10° C or above 50° C.			



DIRECTA RWY 19 / Straight in RWY 19										Circulación Visual N.A.				
CAT	LNAV / VNAV					LNAV					Circle to land N.A.			
	DA 810'	DH 262'	MDA 850'	MDH 302'	VIS	DA 810'	DH 262'	MDA 850'	MDH 302'	VIS	Requiere certificación RNP APCH (LNAV) APV / Baro VNAV (LNAV - VNAV)			
A	1300 M					1600 M					Certification required RNP APCH (LNAV) APV / Baro VNAV (LNAV - VNAV)			
B														
C														
D						1800 M								
GS KT	90	110	130	150	160	DIST to MAPt	5.0	4	3	2	0.8			
FAF - MAPt 5.0 NM	3:20	2:44	2:18	2:00	1:52	ALT	2200	1870	1550	1230	850			
FPM	480	590	690	800	850	HGT	(1652)	(1322)	(1002)	(682)	(302)			

HEROES DE MALVINAS (SAZT) IAC RNP RWY 19 (LNAV/VNAV)	
FIX IDENT	COORDINATES
ERUMI	37°03'22.35" S 059°12'31.55" W
GEMAL	37°08'21.55" S 059°13'04.80" W
RW19	37°13'22.56" S 059°13'38.32" W
ZT015	37°18'44.31" S 059°14'14.24" W
ZT017	37°17'18.65" S 059°07'46.90" W
DADOB	37°03'48.81" S 059°06'18.20" W
BOKAS	36°58'23.12" S 059°11'58.78" W
ASAPO	37°02'55.57" S 059°18'44.83" W

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HEROES DE MALVINAS (SAZT) IAC RNP RWY 19 (LNAV/VNAV)												
Seq Num	Fix Ident	Path Terminator	Fly Over	Distance (NM)	Course M°(T°)	Turn	Altitude (ft/FL)	Altitude Description	Speed Limit (Kt)	Navigation Specification	RNP	Dec (ARP 2018)
010	BOKAS	IF	-	N/A	N/A	N/A	3000	+	-220	RNP APCH	1.0	7 W
020	ERUMI	TF	N	5.0	192 (185.0)	N/A	2200	+	-180	RNP APCH	1.0	7 W
010	DADOB	IF	-	N/A	N/A	N/A	3000	+	-220	RNP APCH	1.0	7 W
020	ERUMI	TF	N	5.0	282 (275.1)	N/A	2200	+	-180	RNP APCH	1.0	7 W
010	ASAPO	IF	-	N/A	N/A	N/A	3000	+	-220	RNP APCH	1.0	7 W
020	ERUMI	TF	N	5.0	102 (095.1)	N/A	2200	+	-180	RNP APCH	1.0	7 W
010	ERUMI	IF	-	N/A	N/A	N/A	2200	+	-180	RNP APCH	1.0	7 W
020	GEMAL	TF	N	5.0	192 (185.1)	N/A	2200	+	N/A	RNP APCH	1.0	7 W

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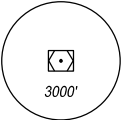
HEROES DE MALVINAS (SAZT) IAC RNP RWY 19 (LNAV/VNAV)												
Seq Num	Fix Ident	Path Terminator	Fly Over	Distance (NM)	Course M°(T°)	Turn	Altitude (ft/FL)	Altitude Description	Speed Limit (Kt)	Navigation Specification	RNP	Dec (ARP 2018)
030	RW19	TF	Y	5.0	192 (185.1)	N/A	598	@	N/A	RNP APCH	0.3	7 W
040	ZT015	CF	Y	5.4	192 (185.1)	N/A	N/A	N/A	-210	RNP APCH	1.0	7 W
050	ZT017	DF	N	N/A	N/A	L	2900	+	-210	RNP APCH	1.0	7 W
060	DADOB	TF	Y	13.5	012 (005.0)	N/A	3000	+	N/A	RNP APCH	1.0	7 W
070	DADOB	HM	Y	4.0	282 (275.1)	R	3000	+	-210	RNP APCH	1.0	7 W

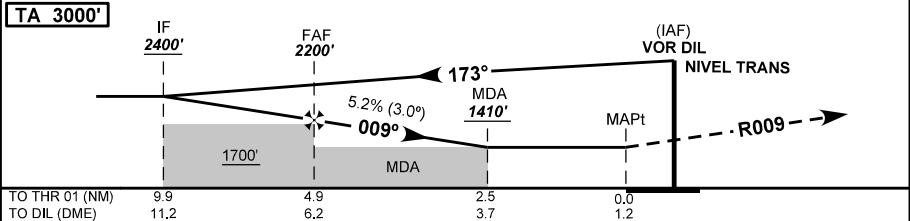
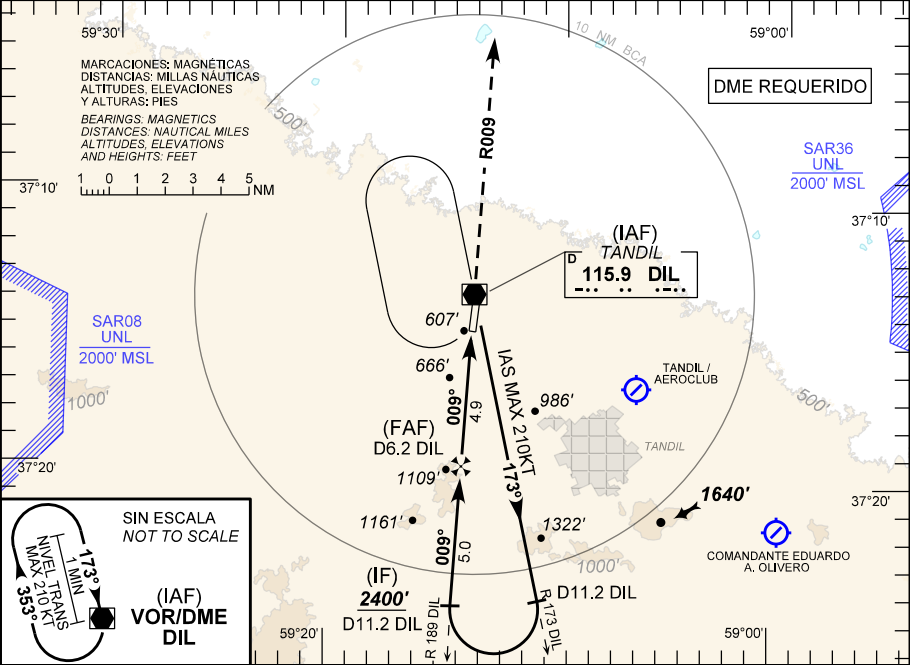
31 ENERO 2019

HÉROES DE MALVINAS (SAZT)
TANDIL

Carta de aproximación por instrumentos
Instrument approach chart

VOR Z RWY 01

TANDIL CTL 120.90 119.40		TANDIL APP / TWR 120.90 119.40		TANDIL GND 119.40		EMERG 121.50
VOR DIL 115.9	FINAL APCH CRS 009°	ALTITUD MNM FAF 2200' (1624')	MDA (H) 1410' (834')	AD Elev 576'	THR Elev 575'	07° W (2018)
Aproximación frustrada: ASC sobre R009 DIL hasta 3000 ft y seguir instrucciones del ATC. Missed approach: Climb on R009 DIL to 3000 ft and proceed as directed by ATC.						 3000'
NOTA: NIL.			RMK: NIL.			MSA 25 NM DIL



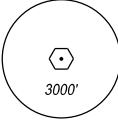
CAT	DIRECTA RWY 01 / <i>Straight in RWY 01</i>							Circulación Visual <i>Circle to land</i>			
	VOR/DME										
	MDA 1410'			MDH 834'							
	VIS							CAT	MDA	MDH	VIS
A	4000 M							A	1410'	834'	4000 M
B								B	1410'	834'	4000 M
C	4200 M							C	1410'	834'	4200 M
D								D	1510'	934'	4600 M
GS KT	90	110	130	150	160	DIST to MAPt	4,9	4,5	4,0	3,0	2,5
FAF - MAPt 4,9 NM	3:18	2:42	2:17	1:59	1:51	ALT	2200	2059	1900	1581	1410
FPM	480	580	690	800	850	HGT	(1624)	(1483)	(1324)	(1005)	(834)

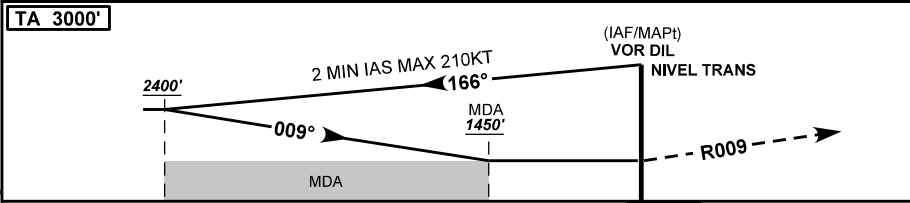
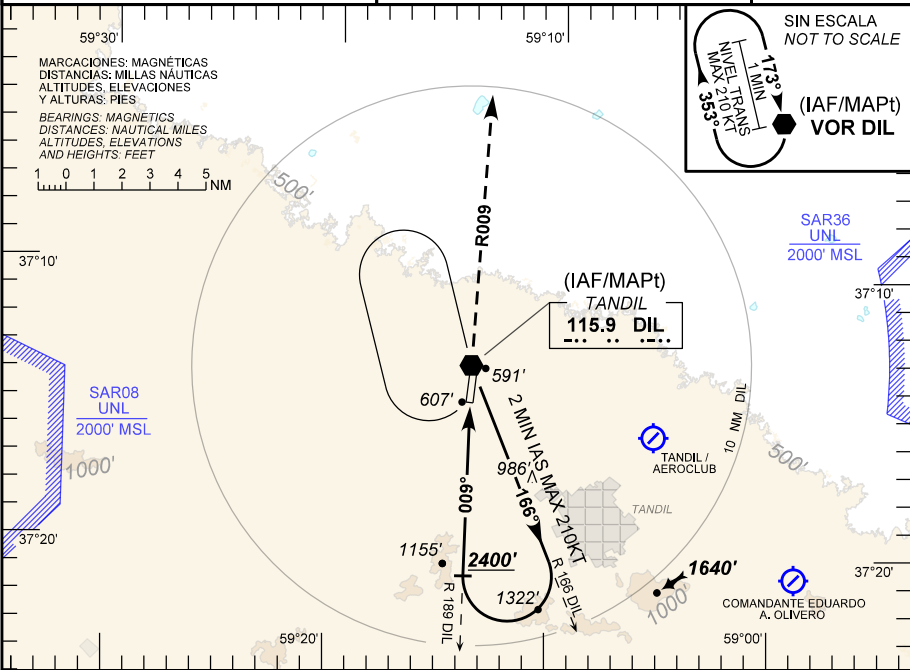
HÉROES DE MALVINAS (SAZT)

TANDIL

Carta de aproximación por instrumentos

VOR Y RWY 01

TANDIL CTL 120.90 119.40		TANDIL APP / TWR 120.90 119.40		TANDIL GND 119.40		EMERG 121.50
VOR DIL 115.9	FINAL APCH CRS 009°	SIN FAF NO FAF	MDA (H) 1450' (874')	AD Elev 576'	THR Elev 575'	07° W (2018)
Aproximación frustrada: ASC sobre R009 DIL hasta 3000 ft y seguir instrucciones del ATC. Missed approach: Climb on R009 DIL to 3000 ft and proceed as directed by ATC.						 MSA 25 NM DIL
NOTA: NIL.			RMK: NIL.			

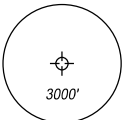


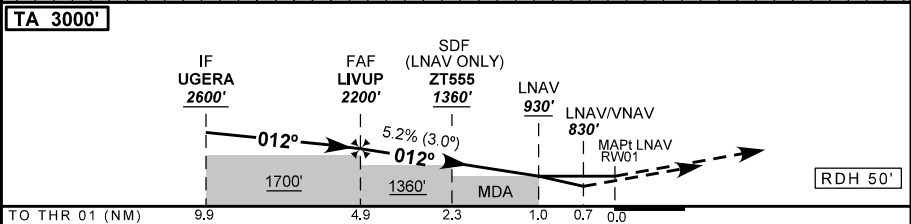
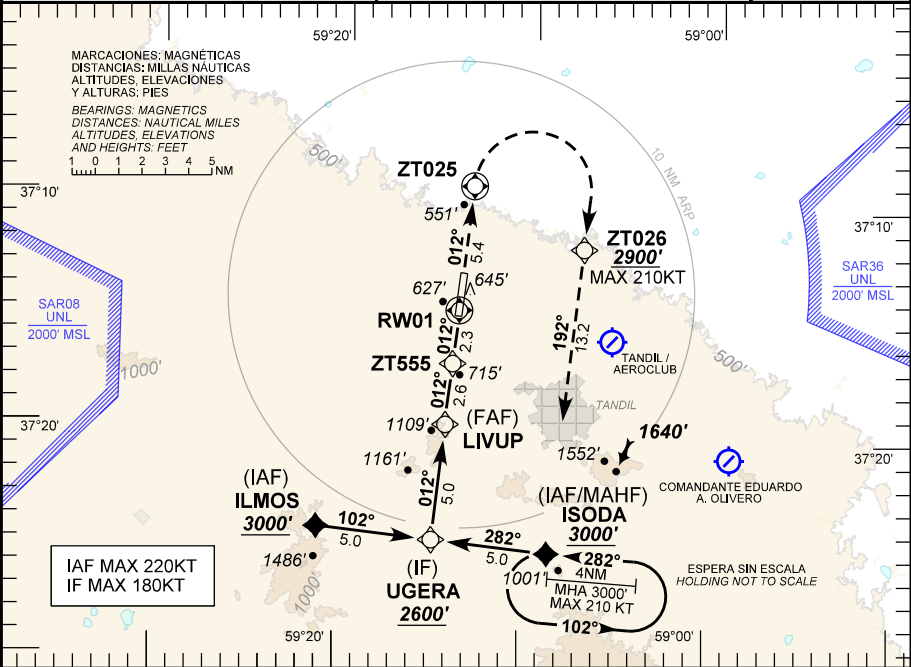
CAT	DIRECTA RWY 01 / <i>Straight in RWY 01</i>			Circulación Visual <i>Circle to land</i>			
	VOR			CAT	MDA	MDH	VIS
	MDA 1450'	MDH 874'					
	VIS						
A	4200 M			A	1450'	874'	4200 M
B				B	1450'	874'	4200 M
C	4400 M			C	1450'	874'	4400 M
D				D	1510'	934'	4600 M

HÉROES DE MALVINAS (SAZT)
TANDIL

Carta de aproximación por instrumentos
Instrument approach chart

RNP RWY 01 (LNAV/VNAV)

TANDIL CTL		TANDIL APP / TWR		TANDIL GND		EMERG
120.90 119.40		120.90 119.40		119.40		121.50
RNP	FINAL APCH CRS	ALTITUD MNM LIVUP	LNAV / VNAV DA(H)	AD Elev	THR Elev	07° W (2018)  3000' MSA 25 NM ARP
	012°	2200' (1625)	830' (255)	576'	575'	
Aproximación frustrada: ASC sobre curso 012° hasta ZT025, viraje derecha DCT ZT026 alcanzando MNM 2900 ft, luego seguir sobre curso 192° hasta ISODA a 3000 ft, HLDG y seguir instrucciones del ATC.						
Missed approach: Climb on track 012° to ZT025, turn right DCT ZT026 reaching MNM 2900 ft, then continue on track 192° to ISODA at 3000 ft, HLDG and proceed as directed by ATC.						
Para sistemas Baro VNAV no compensados, debajo de -10° C superior a 50° C N.A.			For uncompensated Baro VNAV system N.A. below -10° C or above 50° C.			



DIRECTA RWY 01 / <i>Straight in RWY 01</i>										Circulación Visual N.A.			
CAT	LNAV / VNAV					LNAV				Circle to land N.A.			
	DA 830'		DH 255'		MDA 930'		MDH 354'		Requiere certificación RNP APCH (LNAV)				
	VIS					VIS				APV / Baro VNAV (LNAV - VNAV)			
	A	1300 M					1800 M				Certification required		
B	2000 M						RNP APCH (LNAV)						
C							APV / Baro VNAV (LNAV - VNAV)						
D													
GS KT		90	110	130	150	160	DIST to MAPt		4.9	4	3	2	1.0
FAF - MAPt 4.9 NM		3:18	2:42	2:17	1:59	1:51	ALT		2200	1900	1581	1263	930
FPM		480	580	690	800	850	HGT		(1624)	(1324)	(1005)	(687)	(354)

HÉROES DE MALVINAS (SAZT) IAC RNP RWY 01 (LNAV/VNAV)	
FIX IDENT	COORDINATES
ISODA	37°25'06.56" S 059°08'38.95" W
ILMOS	37°24'13.08" S 059°21'09.06" W
UGERA	37°24'39.99" S 059°14'54.04" W
LIVUP	37°19'40.81" S 059°14'20.55" W
ZT555	37°17'02.99" S 059°14'02.92" W
RW01	37°14'44.96" S 059°13'47.51" W
ZT025	37°09'23.22" S 059°13'11.66" W
ZT026	37°11'58.10" S 059°07'11.04" W

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2/2 HÉROES DE MALVINAS (SAZT) IAC RNP RWY 01 (LNAV/VNAV)												
Seq Num	Fix Ident	Path Terminator	Fly Over	Distance (NM)	Course M°(T°)	Turn	Altitude (ft/FL)	Altitude Description	Speed Limit (Kt)	Navigation Specification	RNP	Dec (ARP 2018)
050	ZT025	CF	Y	5.4	012 (005.1)	N/A	N/A	N/A	-210	RNP APCH	1.0	7 W
060	ZT026	DF	N	N/A	N/A	R	2900	+	-210	RNP APCH	1.0	7 W
070	ISODA	TF	Y	13.2	192 (185.1)	N/A	3000	+	N/A	RNP APCH	1.0	7 W
080	ISODA	HM	Y	4.0	282 (275.1)	N/A	3000	+	-210	RNP APCH	1.0	7 W

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1/2 HÉROES DE MALVINAS (SAZT) IAC RNP RWY 01 (LNAV/VNAV)												
Seq Num	Fix Ident	Path Terminator	Fly Over	Distance (NM)	Course M°(T°)	Turn	Altitude (ft/FL)	Altitude Description	Speed Limit (Kt)	Navigation Specification	RNP	Dec (ARP 2018)
010	ISODA	IF	N	N/A	N/A	N/A	3000	+	-220	RNP APCH	1.0	7 W
020	UGERA	TF	N	5.0	282 (275.1)	N/A	2600	+	-180	RNP APCH	1.0	7 W
010	ILMOS	IF	N	N/A	N/A	N/A	3000	+	-220	RNP APCH	1.0	7 W
020	UGERA	TF	N	5.0	102 (095.1)	N/A	2600	+	-180	RNP APCH	1.0	7 W
010	UGERA	IF	N	N/A	N/A	N/A	2600	+	-180	RNP APCH	1.0	7 W
020	LIVUP	TF	N	5.0	012 (005.1)	N/A	2200	+	-180	RNP APCH	1.0	7 W
030	ZT555	TF	N	2.6	012 (005.1)	N/A	1360	+	N/A	RNP APCH	0.3	7 W
040	RW01	TF	Y	2.3	012 (005.1)	N/A	625	@	N/A	RNP APCH	0.3	7 W

31 ENERO 2019