

SAN CARLOS DE BARILOCHE (SAZS) Carta de aproximación por instrumentos
RÍO NEGRO Instrument approach chart

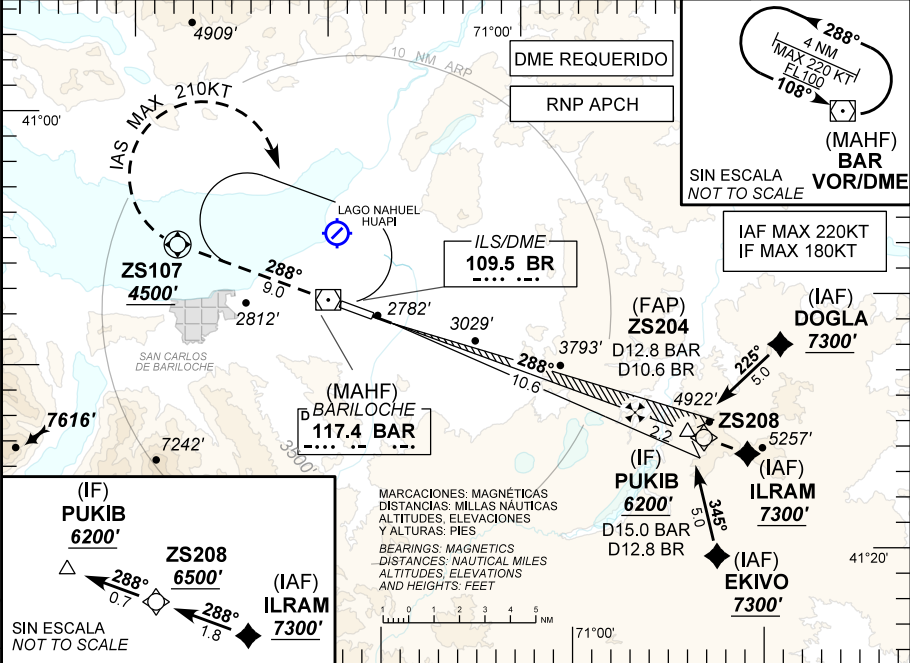
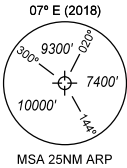
ILS Z RWY 29

ATIS	BARILOCHE CTL	BARILOCHE APP	BARILOCHE TWR	BARILOCHE GND	EMERG
127.90	119.10 118.65	119.10 118.65	119.10 118.65	121.80	121.50
LOC BR	FINAL APCH CRS	ALTITUD MNM ZS204	ILS/DME DA (H)	AD Elev	THR Elev
109.5	288°	6200' (3439')	2980' (219')	2761'	2761'

Aproximación frustrada: ASC sobre curso 288° hasta ZS107 (MNM 4500 ft), luego viraje derecha DCT VOR BAR alcanzando MNM 8300 ft., y espera ascendiendo hasta FL100.

Missed approach: Climb on track 288° to ZS107 (MNM 4500 ft), then turn right DCT to BAR VOR reaching MNM 8300 ft., and HOLD climbing to FL100.

NOTA: Circulación visual solo al Norte de RWY 11/29. RMK: Circle to land only North of RWY 11/29.



TA 8000'

RDH 57'

0	0.5	10.6	12.8	TO THR 29 (NM)
0	0.5	10.6	12.8	TO BR (DME)
2.2	2.7	12.8	15.0	TO BAR (NM)

CAT	DIRECTA RWY 29 / <i>Straight in RWY 29</i>								Circulación Visual <i>Circle to land</i>			
	ILS/DME											
	DA 2980'								DH 219'			
	VIS ALS				VIS SIN ALS				CAT	MDA	MDH	VIS
A	800 M RVR 550 M				1200 M RVR 1200 M				A	3220'	459'	1900 M
B									B	3710'	949'	2800 M
C									C	4110'	1349'	3700 M
D									D	5100'	2339'	4600 M
GS KT		90	110	130	150	160	DIST to THR	10.6	4	3	1	0.5
FAF - THR 10.6 NM		7:05	5:48	4:54	4:15	3:59	ALT	6200	4090	3770	3140	2980
FPM		480	580	690	800	850	HGT	(3439)	(1329)	(1009)	(379)	(219)

31 ENERO 2019

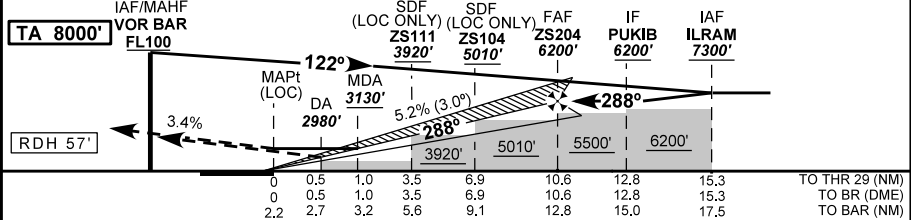
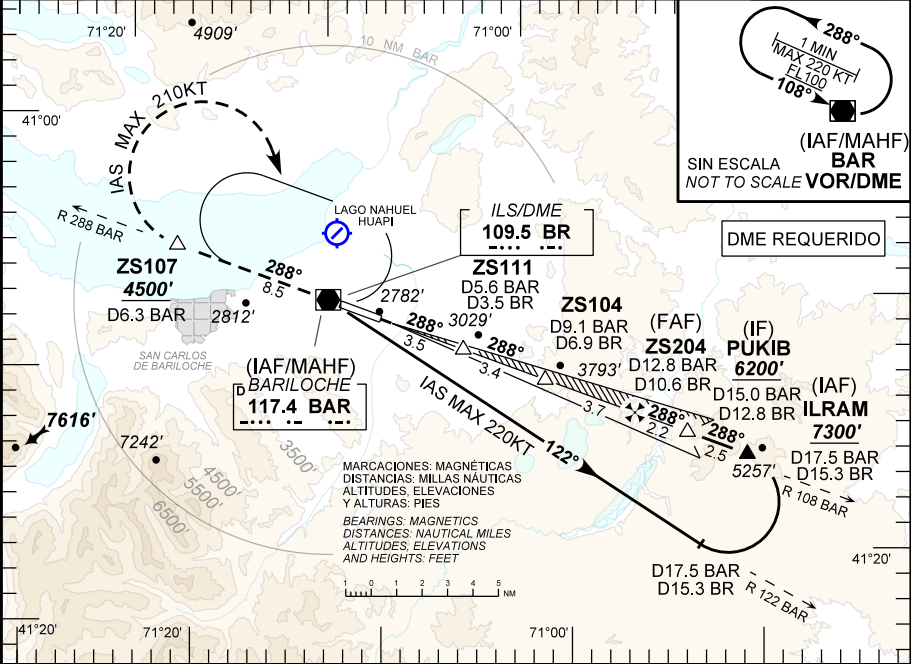
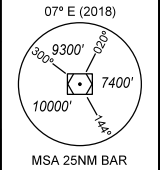
SAN CARLOS DE BARILOCHE (SAZS) Carta de aproximación por instrumentos
RÍO NEGRO Instrument approach chart

ILS Y RWY 29

ATIS	BARILOCHE CTL	BARILOCHE APP	BARILOCHE TWR	BARILOCHE GND	EMERG
127.90	119.10 118.65	119.10 118.65	119.10 118.65	121.80	121.50
LOC BR	FINAL APCH CRS	ALTITUD MNM ZS204	ILS/DME DA (DH)	AD Elev	
109.5	288°	6200' (3439')	2980' (219')	THR Elev 2761'	

Aproximación frustrada: ASC sobre R288 BAR hasta ZS107 (MNM 4500 ft), luego viraje derecha DCT VOR BAR alcanzando MNM 8300 ft , y espera ascendiendo hasta FL100.
Missed approach: Climb on R288 BAR to ZS107 (MNM 4500 ft), then turn right DCT BAR VOR reaching MNM 8300 ft, and HOLD climbing to FL100.

NOTA: Circulación visual solo al Norte de RWY 11/29. RMK: Circle to land only North of RWY 11/29.

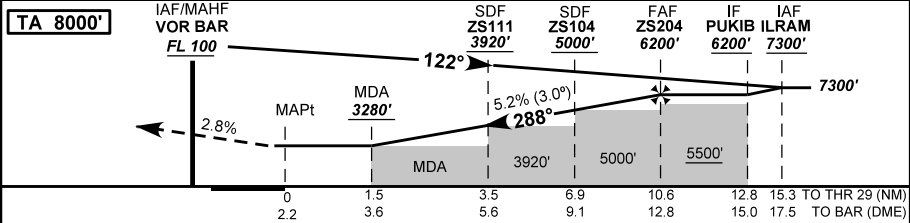
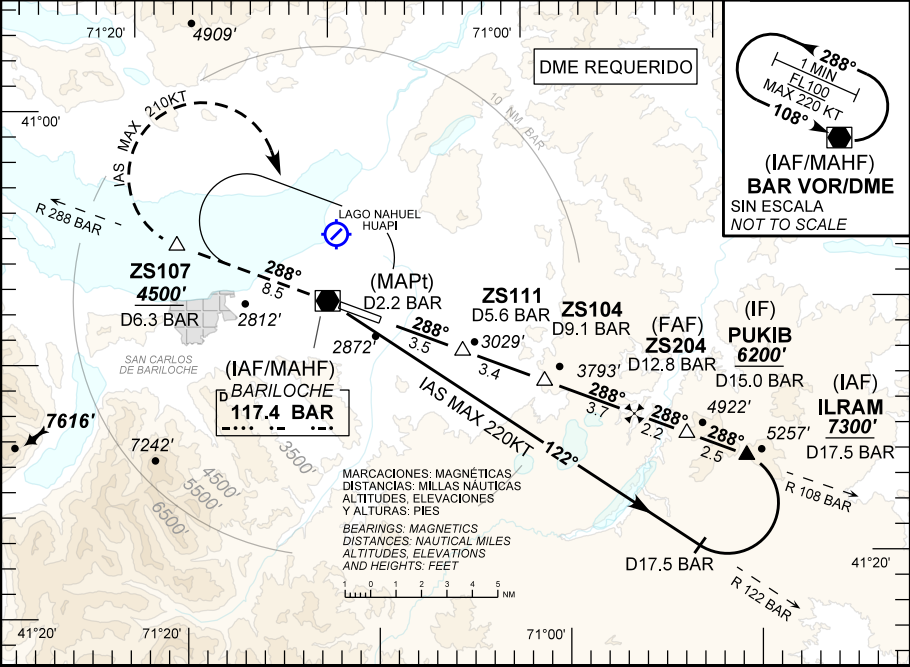


DIRECTA RWY 29 / Straight in RWY 29										Circulación Visual			
CAT	ILS/DME		LOC/DME							Circle to land			
	DA 2980'		MDA 3130'							CAT	MDA	MDH	VIS
	VIS ALS	VIS SIN ALS	VIS ALS	VIS SIN ALS									
A	800 M RVR 550 M	1200 M RVR 1200 M	1200 M		1900 M					A	3220'	459'	1900 M
B			1200 M		1900 M					B	3710'	949'	2800 M
C			1400 M		2100 M					C	4110'	1349'	3700 M
D			1400 M		2100 M					D	5100'	2339'	4600 M
GS KT	90	110	130	150	160	DIST to MAPt	10.6	4	3	2	1		
FAF - MAPt 10.6 NM	7:05	5:48	4:54	4:15	3:59	ALT	6200	4090	3770	3460	3140		
FPM	480	580	690	800	850	HGT	(3439)	(1329)	(1009)	(699)	(379)		

SAN CARLOS DE BARILOCHE (SAZS) Carta de aproximación por instrumentos
RÍO NEGRO Instrument approach chart

VOR RWY 29

ATIS	BARILOCHE CTL	BARILOCHE APP	BARILOCHE TWR	BARILOCHE GND	EMERG
127.90	119.10 118.65	119.10 118.65	119.10 118.65	121.80	121.50
VOR BAR 117.4	FINAL APCH CRS 288°	ALTITUD MNM ZS204 6200' (3439')	MDA (H) 3280' (519')	AD Elev 2761' THR Elev 2761'	07° E (2018)
Aproximación frustrada: ASC sobre R288 BAR hasta ZS107 (MNM 4500 ft), luego viraje derecha DCT VOR BAR alcanzando MNM 8300 ft, y espera ascendiendo hasta FL100. Missed approach: Climb on R288 BAR to ZS107 (MNM 4500 ft), then turn right DCT BAR VOR reaching MNM 8300 ft, and HOLD climbing to FL100.					MSA 25NM BAR
NOTA: Circulación visual solo al Norte de RWY 11/29.		RMK: Circle to land only North of RWY 11/29.			



DIRECTA RWY 29 / <i>Straight in RWY 29</i>										Circulación Visual <i>Circle to land</i>			
CAT	VOR/DME												
	MDA 3280'					MDH 519'							
	VIS ALS				VIS SIN ALS					CAT	MDA	MDH	VIS
A	1800 M				2600 M					A	3290'	529'	2800 M
B	1800 M				2600 M					B	3710'	949'	2800 M
C	2000 M				2800 M					C	4110'	1349'	3700 M
D	2000 M				2800 M					D	5100'	2339'	4600 M
GS KT	90	110	130	150	160	DIST to MAPt	10.6	4	3	2	1.5		
FAF - MAPt 10.6 NM	07:05	05:47	04:53	04:15	03:59	ALT	6200	4090	3770	3450	3280		
FPM	480	590	690	800	850	HGT	(3439)	(1329)	(1009)	(689)	(519)		

SAN CARLOS DE BARILOCHE (SAZS)

RIO NEGRO

Carta de aproximación por instrumentos

Instrument approach chart

RNP Z RWY 29

ATIS	BARIOLOCHE CTL	BARIOLOCHE APP	BARIOLOCHE TWR	BARIOLOCHE GND	EMERG
127.90	119.10 118.65	119.10 118.65	119.10 118.65	121.80	121.50

RNP

FINAL APCH CRS

288°

ALTITUD MNM VUKEL

6200'

(3439')

LNAV / VNAV DA(H)

3070'

(309')

AD Elev

2761'

THR Elev

2761'

07° E (2018)

9300'

9200'

7400'

10000'

144°

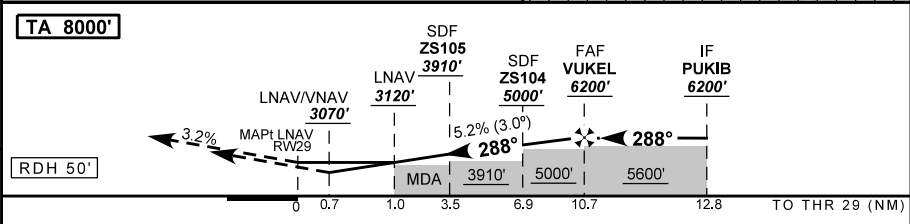
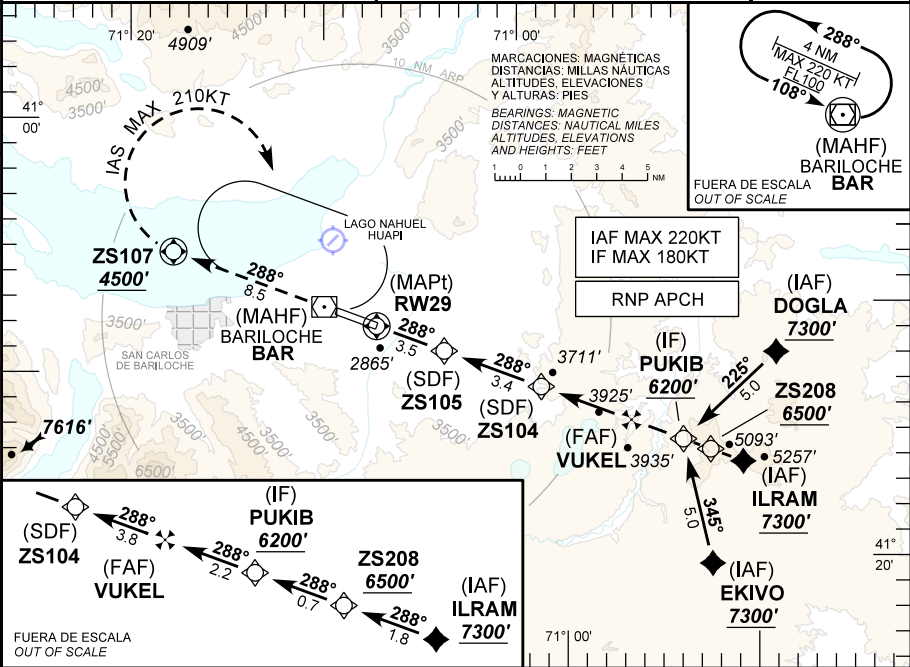
MSA 25 NM ARP

Aproximación frustrada: ASC sobre curso 288° hasta ZS107 (MNM 4500 ft), virar a la derecha DCT VOR BAR alcanzando MNM 8300 ft, HLDG ascendiendo hasta FL100. (NOTA: Gradiente MNM 3.2%).

Missed approach: Climb on course 288° to ZS107 (MNM 4500 ft), then turn right DCT BAR VOR reaching MNM 8300 ft, HOLD climbing to FL100. (NOTE: MNM gradient 3.2%).

NOTA: Para sistemas Baro-VNAV no compensados, debajo de -20°C o superior a 50°C N.A.

NOTE: For uncompensated Baro-VNAV systems, N.A. below -20° C or above 50° C.



DIRECTA RWY 29 / Straight in RWY 29						Circulación Visual			
CAT	LNAV / VNAV		DH 309'	LNAV		Circle to land			
	DA 3070'	MDA 3120'		MDH 359'	MDH 359'	CAT	MDA	MDH	VIS
A	800 M	1400 M	1100 M	1800 M	1800 M	A	Circulación Visual N.A.		
B	800 M	1400 M	1100 M	1800 M	1800 M	B			
C	RVR 700 M	RVR 1400 M	1300 M	2000 M	2000 M	C			
D	RVR 700 M	RVR 1400 M	1300 M	2000 M	2000 M	D			
GS KT	90	110	130	150	160	DIST to Mapt	10.7	4.0	3.0
FAF - Mapt 10.7 NM	7:05	5:48	4:55	4:15	3:59	ALT	6200	4090	3770
FPM	480	580	690	800	850	HGT	(3439)	(1329)	(1009)

SAN CARLOS DE BARILOCHE (SAZS) RNP Z RWY 29	
FIX IDENT	COORDINATES
ILRAM	41°15'43.00" S 070°50'16.00" W
DOGLA	41°11'31.78" S 070°48'07.88" W
EKIVO	41°19'37.10" S 070°52'15.02" W
PUKIB	41°14'40.59" S 070°53'16.93" W
VUKEL	41°13'46.35" S 070°55'54.02" W
ZS104	41°12'12.15" S 071°00'26.40" W
ZS105	41°10'46.40" S 071°04'33.72" W
RW29	41°09'19.84" S 071°08'42.75" W
BAR	41°08'24.94' S 071°11'20.38" W
ZS208	41°14'57.59" S 070°52'27.57" W
ZS107	41°05'46.33" S 071°18'54.41" W

21 ABRIL 2022

1/2 SAN CARLOS DE BARILOCHE (SAZS) RNP Z RWY 29											
Seq Num	Fix Ident	Path Terminator	Fly Over	Distance (NM)	Course M°(T°)	Turn	Altitude (ft/FL)	Speed Limit (Kt)	Navigation Specification	RNP	Dec (ARP 2018)
010	ILRAM	IF	N	N/A	N/A	N/A	+7300	-220	RNP APCH	1.0	7 E
020	ZS208	TF	N	1.8	288 (294.6)	N/A	+6500	-220	RNP APCH	1.0	7 E
030	PUKIB	TF	N	0.7	288 (294.5)	N/A	+6200	-180	RNP APCH	1.0	7 E
010	DOGLA	IF	N	N/A	N/A	N/A	+7300	-220	RNP APCH	1.0	7 E
020	PUKIB	TF	N	5.0	225 (231.1)	N/A	+6200	-180	RNP APCH	1.0	7 E
010	EKIVO	IF	N	N/A	N/A	N/A	+7300	-220	RNP APCH	1.0	7 E
020	PUKIB	TF	N	5.0	345 (351.1)	N/A	+6200	-180	RNP APCH	1.0	7 E
010	PUKIB	IF	N	N/A	N/A	N/A	+6200	-180	RNP APCH	1.0	7 E

21 ABRIL 2022

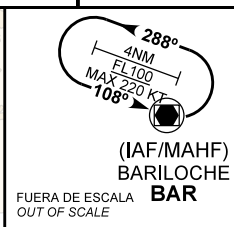
2/2 SAN CARLOS DE BARILOCHE (SAZS) RNP Z RWY 29											
Seq Num	Fix Ident	Path Terminator	Fly Over	Distance (NM)	Course M°(T°)	Turn	Altitude (ft/FL)	Speed Limit (Kt)	Navigation Specification	RNP	Dec (ARP 2018)
020	VUKEL	TF	N	2.2	288 (294.6)	N/A	+6200	N/A	RNP APCH	1.0	7 E
030	ZS104	TF	N	3.8	288 (294.6)	N/A	+5000	N/A	RNP APCH	0.3	7 E
040	ZS105	TF	N	3.4	288 (294.7)	N/A	+3910	N/A	RNP APCH	0.3	7 E
050	RW29	TF	Y	3.5	288 (294.7)	N/A	@2811	N/A	RNP APCH	0.3	7 E
060	ZS107	CF	Y	8.5	288 (294.8)	N/A	+4500	-210	RNP APCH	1.0	7 E
070	BAR	DF	N	N/A	N/A	R	+8300	-210	RNP APCH	1.0	7 E
080	BAR	HM	Y	4.0	108 (114.6)	L	+FL 100	-220	RNP APCH	1.0	7 E

21 ABRIL 2022

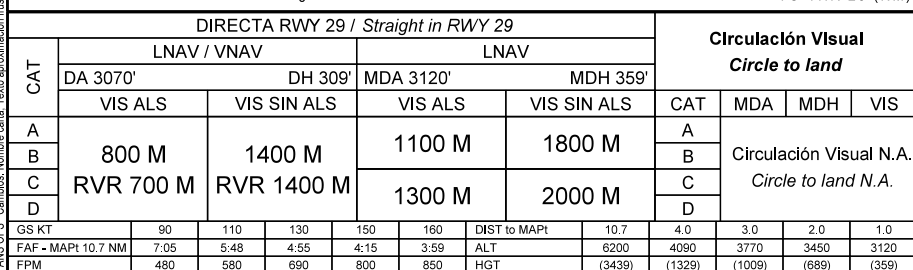
Carta de aproximación por instrumentos
Instrument approach chart

RNP Y RWY 29

NOTE: For uncompensated Baro-VNAV systems, N.A. below -20°C or above 50°C.



RNP APCH
IAF MAX 220KT IF MAX 180KT



SAN CARLOS DE BARILOCHE (SAZS) RNP Y RWY 29	
FIX IDENT	COORDINATES
BAR	41°08'24.94" S 071°11'20.38" W
ZS101	41°17'21.69" S 070°55'22.84" W
PUKIB	41°14'40.59" S 070°53'16.93" W
VUKEL	41°13'46.35" S 070°55'54.02" W
ZS104	41°12'12.15" S 071°00'26.40" W
ZS105	41°10'46.40" S 071°04'33.72" W
RW29	41°09'19.84" S 071°08'42.75" W
ZS107	41°05'46.33" S 071°18'54.41" W

21 ABRIL 2022

1/2 SAN CARLOS DE BARILOCHE (SAZS) RNP Y RWY 29											
Seq Num	Fix Ident	Path Terminator	Fly Over	Distance (NM)	Course M°(T°)	Turn	Altitude (ft/FL)	Speed Limit (Kt)	Navigation Specification	RNP	Dec (ARP 2018)
010	BAR	IF	N	N/A	N/A	N/A	+FL 100	-220	RNP APCH	1.0	7 E
020	ZS101	TF	N	15.0	120 (126.5)	N/A	+6200	-180	RNP APCH	1.0	7 E
030	PUKIB	TF	N	3.1	024 (030.5)	N/A	+6200	-180	RNP APCH	1.0	7 E
010	PUKIB	IF	N	N/A	N/A	N/A	+6200	-180	RNP APCH	1.0	7 E
020	VUKEL	TF	N	2.2	288 (294.6)	N/A	+6200	N/A	RNP APCH	1.0	7 E
030	ZS104	TF	N	3.8	288 (294.6)	N/A	+5000	N/A	RNP APCH	0.3	7 E
040	ZS105	TF	N	3.4	288 (294.7)	N/A	+3910	N/A	RNP APCH	0.3	7 E
050	RW29	TF	Y	3.5	288 (294.7)	N/A	@2811	N/A	RNP APCH	0.3	7 E

21 ABRIL 2022

2/2 SAN CARLOS DE BARILOCHE (SAZS) RNP Y RWY 29											
Seq Num	Fix Ident	Path Terminator	Fly Over	Distance (NM)	Course M°(T°)	Turn	Altitude (ft/FL)	Speed Limit (Kt)	Navigation Specification	RNP	Dec (ARP 2018)
060	ZS107	CF	Y	8.5	288 (294.8)	N/A	+4500	-210	RNP APCH	1.0	7 E
070	BAR	DF	N	N/A	N/A	R	+8300	-210	RNP APCH	1.0	7 E
080	BAR	HM	Y	4.0	108 (114.6)	L	+FL 100	-220	RNP APCH	1.0	7 E

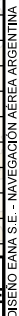
21 ABRIL 2022

VOR RWY 11

Diagram showing a circular area with a central square. The square is divided into four quadrants by a horizontal and vertical line. The distances from the center of the square to the edges of the circle are labeled: 9300' (top), 7400' (right), 10000' (bottom), and 300' (left). The angles between the radial lines are labeled: 07° E (2018) at the top, 030° at the top-right, 144° at the bottom-right, and 300° at the bottom-left.

Missed approach: : Climb on R108 BAR to ZS104 (MNM 4800 ft), then turn right DCT BAR VOR reaching 7700 ft , and HOLD climbing to FL100.

RMK: Circle to land only North of RWY 11/29

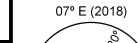


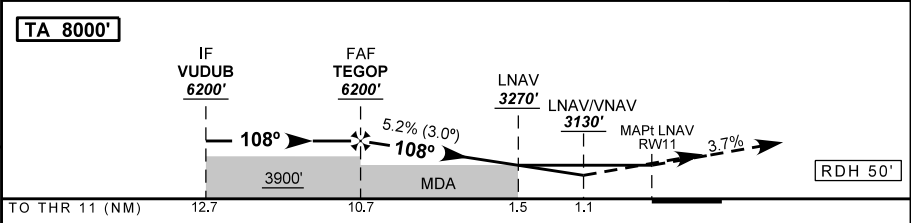
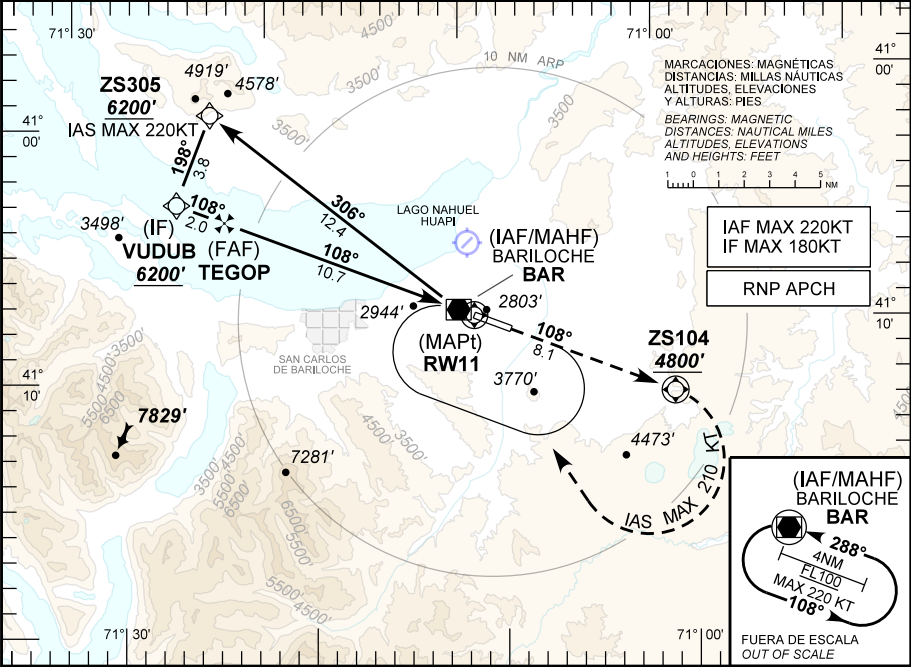
CAT	DIRECTA RWY 11 / <i>Straight in RWY 11</i>								Circulación Visual <i>Circle to land</i>			
	VOR/DME											
	MDA 3150'				MDH 411'				CAT	MDA	MDH	VIS
	VIS SIN ALS								A	3220'	459'	2100 M
	A	2100 M								B	3710'	949'
B	2300 M								C	4110'	1349'	3700 M
C									D	5100'	2339'	4600 M
D												
GS KT		90	110	130	150	160	DIST to MAPt	10.7	4	3	2	1.2
FAF - MAPt 9.8 NM		6.32	5.21	4.31	3.55	3.41	ALT	6200	4060	3740	3430	3150
FPM		520	640	750	870	930	HGT	(3461)	(1321)	(1001)	(691)	(411)

SAN CARLOS DE BARILOCHE (SAZS)
RÍO NEGRO

Carta de aproximación por instrumentos
Instrument approach chart

RNP RWY 11

ATIS	BARILOCHE CTL		BARILOCHE APP		BARILOCHE TWR		BARILOCHE GND		EMERG	
127.90	119.10	118.65	119.10	118.65	119.10	118.65	121.80		121.50	
RNP	FINAL APCH CRS		ALTITUD MNM TEGOP		LNAV / VNAV DA(H)		AD Elev		07° E (2018) 	
	108°		6200' (3461')		3130' (391')		THR Elev			
	Aproximación frustrada: ASC sobre curso 108° hasta ZS104 (MNM 4800 ft), virar a la derecha DCT hasta VOR BAR alcanzando MNM 7700 ft, HLDG ascendiendo hasta FL100. (NOTA: Gradiente MNM 3.7%).									
	Missed approach: Climb on course 108° to ZS104 (MNM 4800 ft), turn right DCT to BAR VOR reaching MNM 7700 ft, HOLD climbing to FL100. (NOTE: MNM gradient 3.7%).									
NOTA: Para sistemas Baro-VNAV no compensados, debajo de -20°C o superior a 50°C N.A.					NOTE: For uncompensated Baro-VNAV systems, N.A. below -20°C or above 50°C.					MSA 25 NM ARP



DIRECTA RWY 11 / <i>Straight in RWY 11</i>										Circulación Visual <i>Circle to land</i>			
CAT	LNAV / VNAV					LNAV							
	DA 3130'		DH 391'		MDA 3270'		MDH 531'		CAT	MDA	MDH	VIS	
	VIS					VIS							
A	1800 M					2600 M							A
B													
C													
D													
GS KT		90	110	130	150	160	DIST to MAPt		10.7	4.0	3.0	2.0	1.5
FAF - MAPt 10.7NM		7:08	5:50	4:58	4:17	4:01	ALT		6200	4060	3740	3430	3270
FPM		480	580	690	800	850	HGT		(3461)	(1321)	(1001)	(691)	(531)

SAN CARLOS DE BARILOCHE (SAZS) RNP RWY 11	
FIX IDENT	COORDINATES
BAR	41°08'24.94" S 071°11'20.38" W
ZS305	41°00'02.47" S 071°23'23.94" W
VUDUB	41°03'27.66" S 071°25'29.70" W
TEGOP	41°04'18.20" S 071°23'05.80" W
RW11	41°08'48.00" S 071°10'14.20" W
ZS104	41°12'12.15" S 071°00'26.40" W

21 ABRIL 2022

1/2 SAN CARLOS DE BARILOCHE (SAZS) RNP RWY 11											
Seq Num	Fix Ident	Path Terminator	Fly Over	Distance (NM)	Course M°(T°)	Turn	Altitude (ft/FL)	Speed Limit (Kt)	Navigation Specification	RNP	Dec (ARP 2018)
010	BAR	IF	N	N/A	N/A	N/A	+FL 100	-220	RNP APCH	1.0	7 E
020	ZS305	TF	N	12.4	306 (312.6)	N/A	+6200	-220	RNP APCH	1.0	7 E
030	VUDUB	TF	N	3.8	198 (204.9)	N/A	+6200	-180	RNP APCH	1.0	7 E
010	VUDUB	IF	N	N/A	N/A	N/A	+6200	-180	RNP APCH	1.0	7 E
020	TEGOP	TF	N	2.0	108 (114.9)	N/A	+6200	N/A	RNP APCH	1.0	7 E
030	RW11	TF	Y	10.7	108 (114.7)	N/A	@2789	N/A	RNP APCH	0.3	7 E
040	ZS104	CF	Y	8.1	108 (114.6)	N/A	+4800	-210	RNP APCH	1.0	7 E
050	BAR	DF	N	N/A	N/A	R	+7700	-210	RNP APCH	1.0	7 E

21 ABRIL 2022

2/2 SAN CARLOS DE BARILOCHE (SAZS) RNP RWY 11											
Seq Num	Fix Ident	Path Terminator	Fly Over	Distance (NM)	Course M°(T°)	Turn	Altitude (ft/FL)	Speed Limit (Kt)	Navigation Specification	RNP	Dec (ARP 2018)
060	BAR	HM	Y	4.0	288 (294.9)	L	+FL 100	-220	RNP APCH	1.0	7 E

21 ABRIL 2022