

05-APR-2018

**BRCSA**

1-10

AOI

**GENERAL****Operational Hours****ATS Hours:** 1000-0100**AD ADMIN Hours:** 1000-1700 on working days**Airport Information****RFF:** CAT 8**Fuel:** O/R**PCN:** RWY 11/29: 67/R/C/W/T**Customs:** O/R 24HR PN**Operation****Taxi/Parking**

Taxi at reduced speed and strictly follow TWY CL.

Taxi into stands in under own PWR and with marshalling assistance, unless otherwise indicated by ATC.

Taxi out of stands in APN 2 with marshalling assistance.

**Engine Run-up**

Engine tests not allowed BTN 0100-1100.

**Warnings**

Paragliding and hovercraft activity in vicinity of AD.

Birds in vicinity of AD.

**ARRIVAL****Speed**

MAX IAS 250KT below FL100 within airspace classes B, C, D and G.

**Communication****COM Failure:** See CRAR.**Arrival Procedure****Non-standard GP Intercept Position on RWY 29**

GP intercepts RWY 29 at 332m / 1088ft after landing threshold.

Remaining DIST beyond GP is 2016m / 6615ft.

**DEPARTURE****Take-off Minima**

RWY		11/29		
Multi ENG	ft - m/km	0 - 550V	HJ only	For conditions check CRAR
		0 - 800V	HN	

**Speed**

MAX IAS 250KT below FL100 within airspace classes B, C, D and G.

**Communication****COM Failure:** See CRAR.

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**BRCSA**

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**DEPARTURE****Departure Procedure****Noise Abatement Procedure:** Use TKOF PROC B.**De-Icing**

AVBL O/R

05-APR-2018

## Argentina San Carlos De Bariloche Rio Negro

AGC

AFC

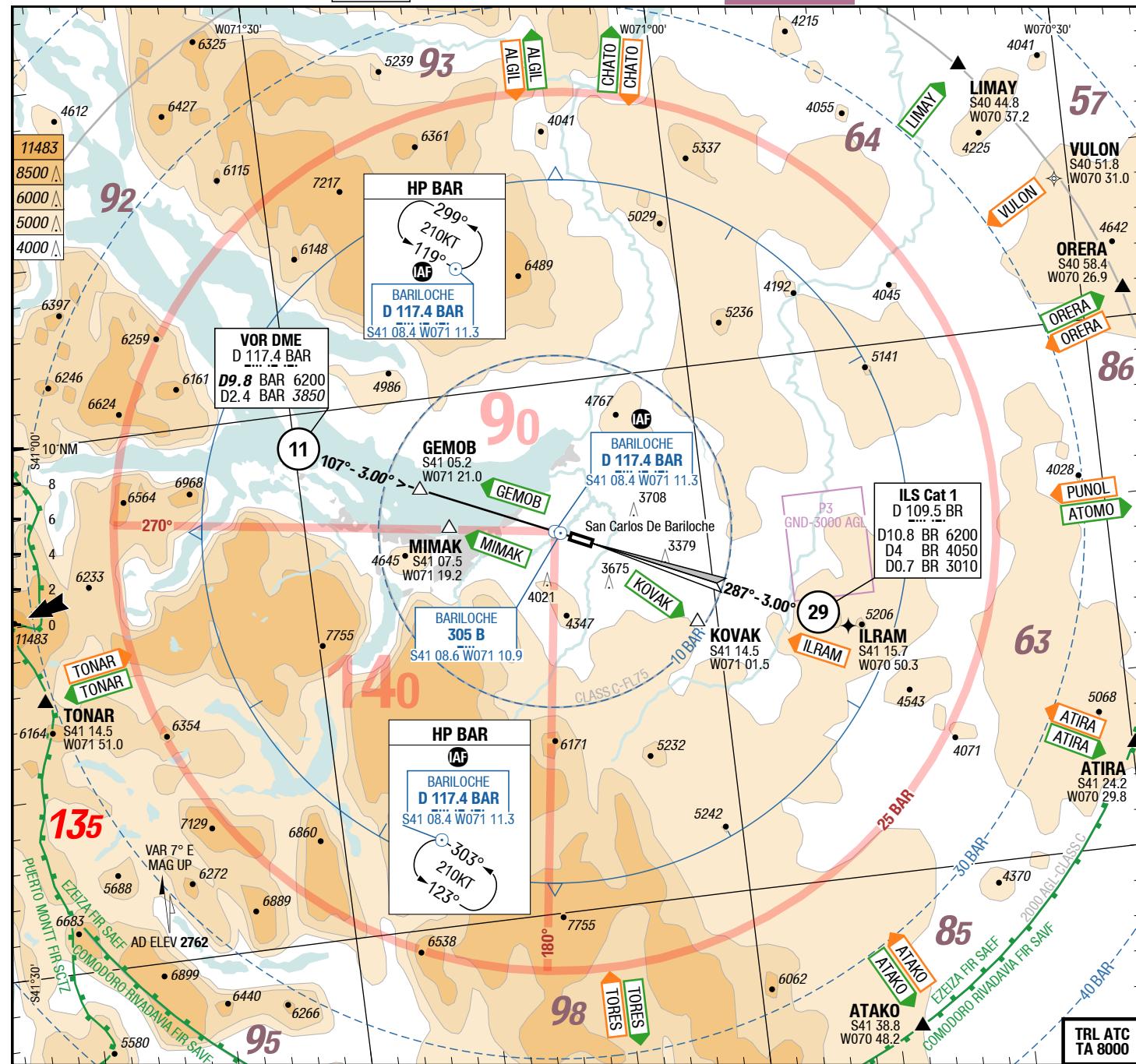
## Rio Negro San Carlos De Bariloche Argentina

AGC

AFC

BRCSA茨

2-10



Changes: New

05-APR-2018

BRCSAQS

Argentina San Carlos De Bariloche Rio Negro

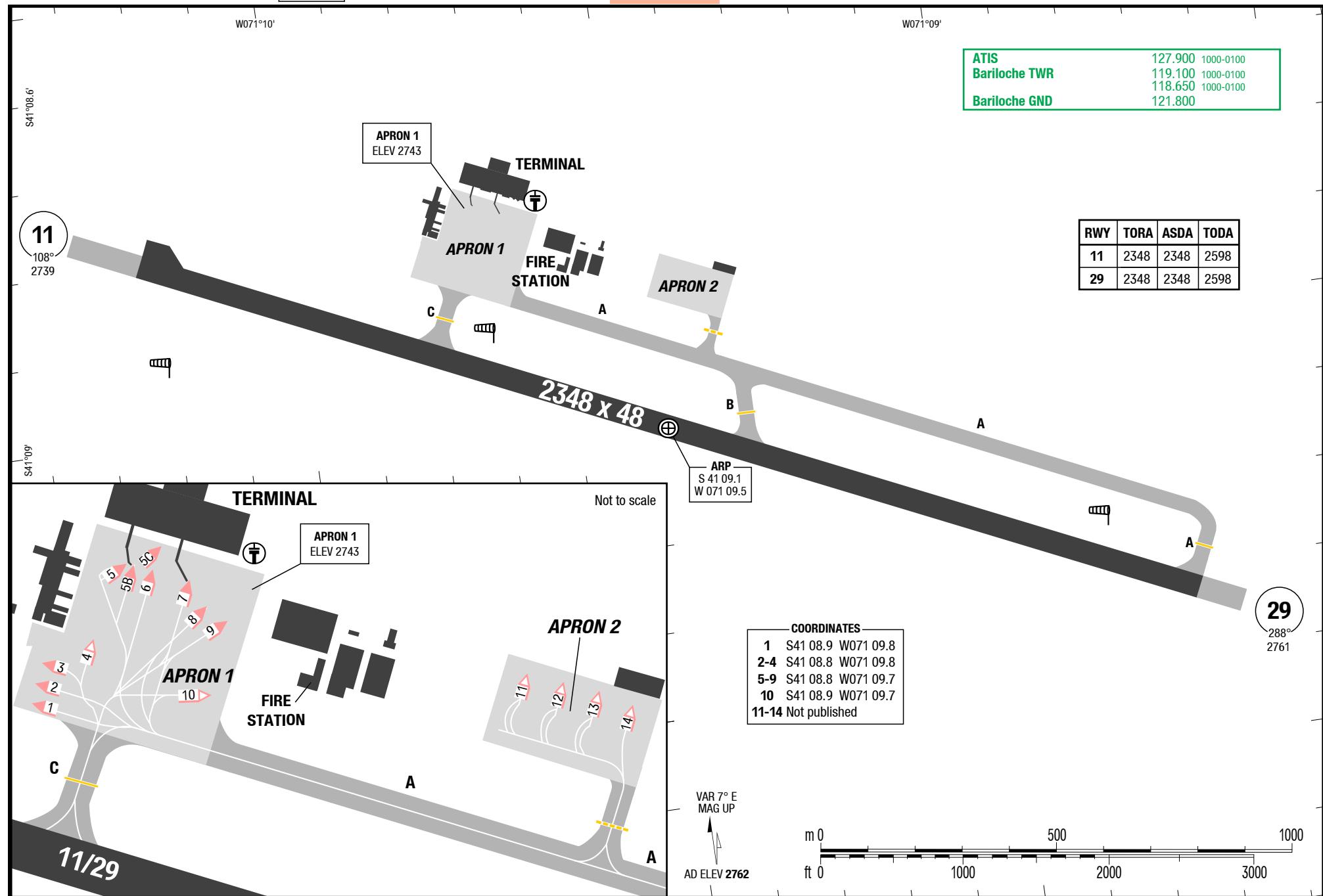
3-20

AGC

AGC

AGC

Rio Negro San Carlos De Bariloche Argentina



05-APR-2018

BRCSAQS

## Argentina San Carlos De Bariloche Rio Negro

MIMAK 1 / KOVAK 4A

4-10

GEMOB 4A

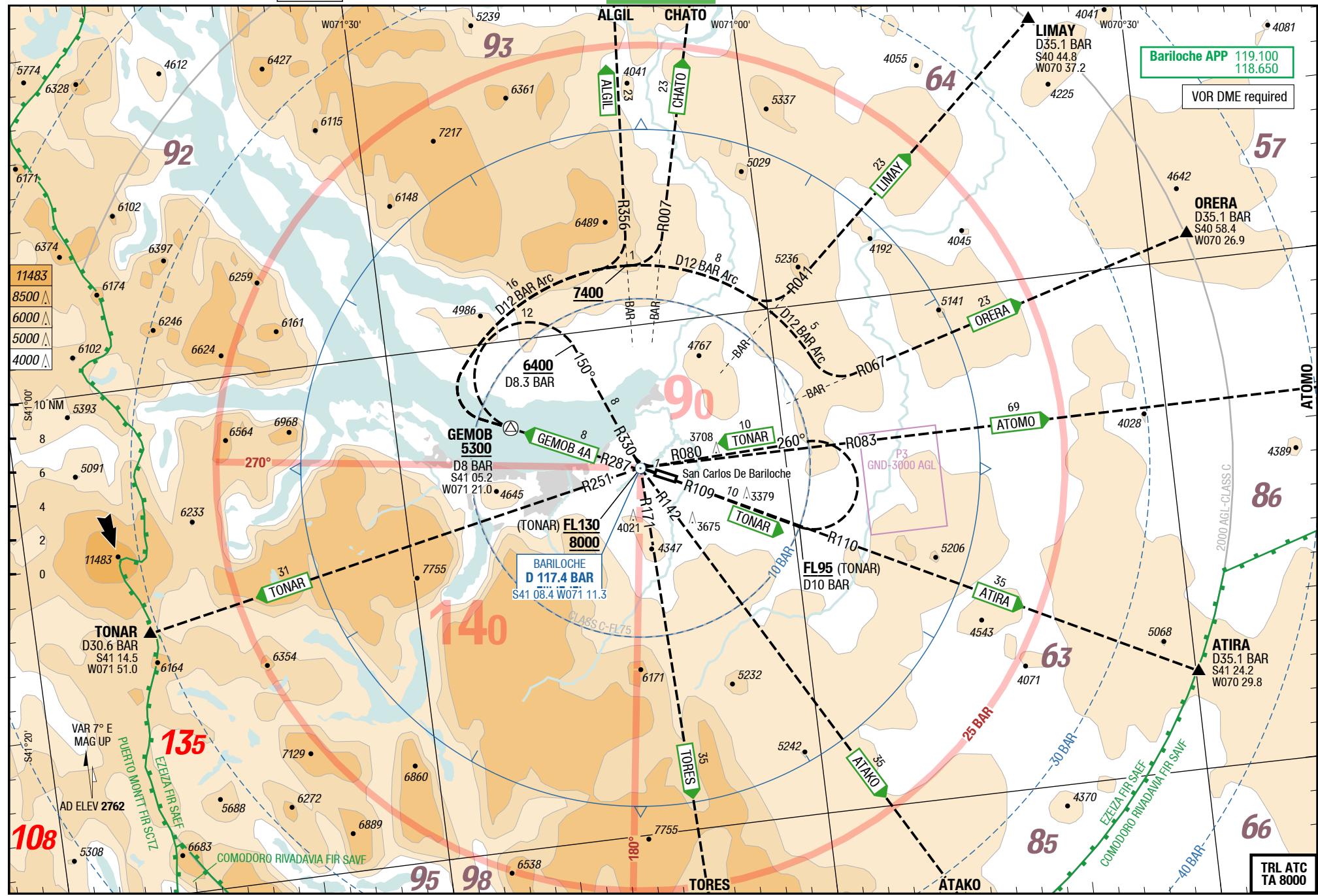
SID

SID

## Rio Negro San Carlos De Bariloche Argentina

MIMAK 1 / KOVAK 4A

GEMOB 4A



Changes: New

05-APR-2018

Argentina **San Carlos De Bariloche** Rio Negro

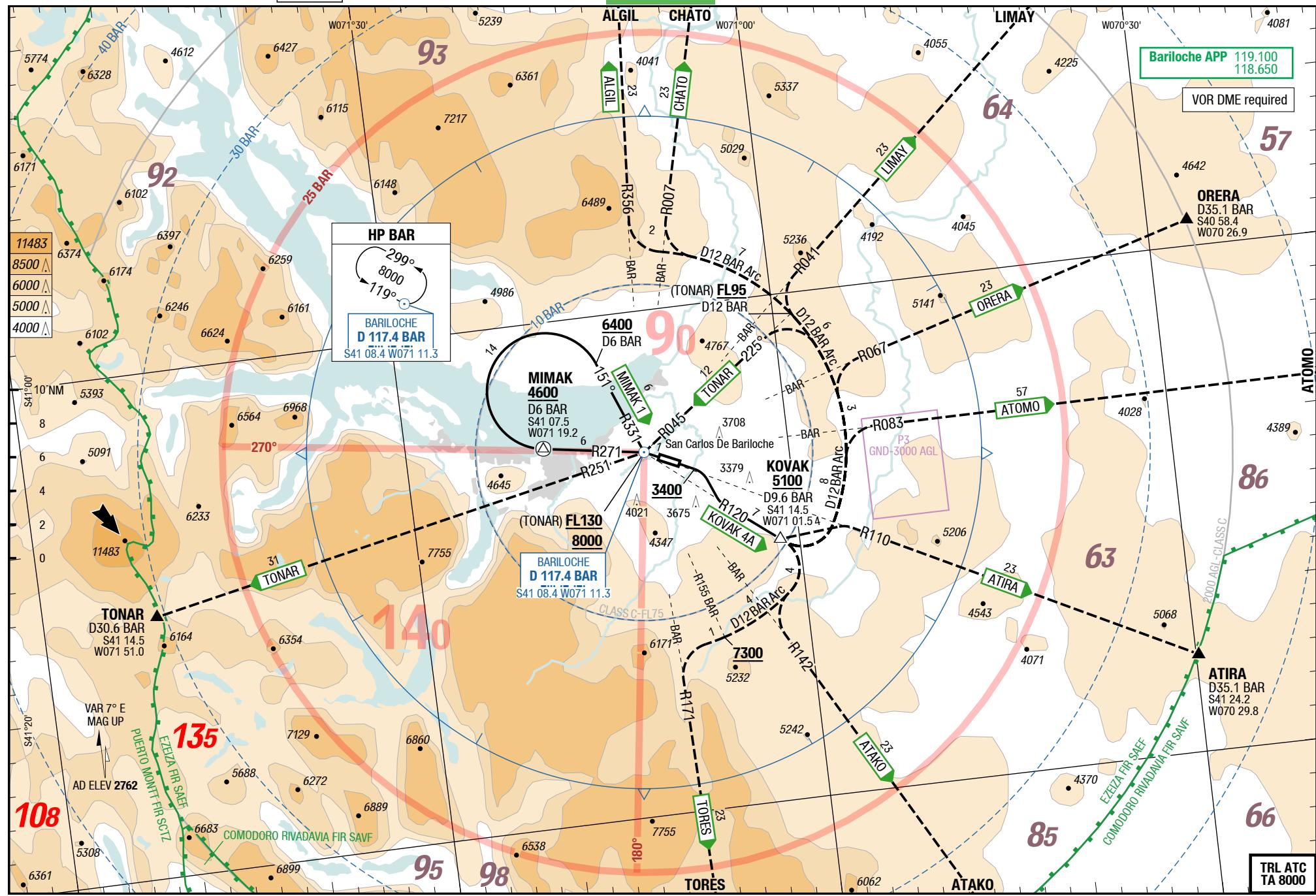
**BRCSA**

4-20

MIMAK 1 / KOVAK 4A

Rio Negro **San Carlos De Bariloche** Argentina

MIMAK 1 / KOVAK 4A



05-APR-2018

**BR-SAZS****5-10****GEMOB 4A**

SIDPT

**GEMOB 4A**

RWY 29 (288°)

	GS	120	150	180	210	240	270
3.5%	ft/MIN	500	600	700	800	900	1000
4.5%	ft/MIN	600	700	900	1000	1100	1300

DESIGNATOR	ROUTING	ALTITUDES
	<b>Runway 29</b>	
<b>GEMOB 4A</b>	direct <b>BAR</b> - R287 <b>BAR</b> to GEMOB	GEMOB MNM <b>5300</b>
4.5% to GEMOB	<b>TRANSITION</b>	
4.5% to 7400 3.5% (Transitions: ALGIL, CHATO, LIMAY, ORERA) 4.5% to 8000 (Transitions: ATAKO, ATIRA, ATOMO, TORES)	<b>ALGIL</b> at GEMOB <b>RT</b> follow D12 <b>BAR</b> arc - intercept R356 <b>BAR</b> to ALGIL	D12 / R356 <b>BAR</b> MNM <b>7400</b>
119.100	<b>ATAKO</b> at GEMOB <b>RT</b> intercept R330 <b>BAR</b> to <b>BAR</b> - R142 <b>BAR</b> to ATAKO	D8.3 / R330 <b>BAR</b> MNM <b>6400</b> <b>BAR</b> MNM <b>8000</b>
	<b>ATIRA</b> at GEMOB <b>RT</b> intercept R330 <b>BAR</b> to <b>BAR</b> - R110 <b>BAR</b> to ATIRA	D8.3 / R330 <b>BAR</b> MNM <b>6400</b> <b>BAR</b> MNM <b>8000</b>
	<b>ATOMO</b> at GEMOB <b>RT</b> intercept R330 <b>BAR</b> to <b>BAR</b> - R083 <b>BAR</b> to ATOMO	D8.3 / R330 <b>BAR</b> MNM <b>6400</b> <b>BAR</b> MNM <b>8000</b>
	<b>CHATO</b> at GEMOB <b>RT</b> follow D12 <b>BAR</b> arc - intercept R007 <b>BAR</b> to CHATO	D12 / R356 <b>BAR</b> MNM <b>7400</b>
	<b>LIMAY</b> at GEMOB <b>RT</b> follow D12 <b>BAR</b> arc - intercept R041 <b>BAR</b> to LIMAY	D12 / R356 <b>BAR</b> MNM <b>7400</b>
	<b>ORERA</b> at GEMOB <b>RT</b> follow D12 <b>BAR</b> arc - intercept R067 <b>BAR</b> to ORERA	D12 / R356 <b>BAR</b> MNM <b>7400</b>
	<b>TONAR</b> at GEMOB <b>RT</b> intercept R330 <b>BAR</b> to <b>BAR</b> - R109 <b>BAR</b> - at D10 <b>BAR LT</b> intercept R080 <b>BAR</b> to <b>BAR</b> - R251 <b>BAR</b> to TONAR	D8.3 / R330 <b>BAR</b> MNM <b>6400</b> <b>BAR</b> MNM <b>8000</b> D10 / R109 <b>BAR</b> MNM <b>FL95</b> <b>BAR</b> MNM <b>FL130</b>
	<b>TORES</b> at GEMOB <b>RT</b> intercept R330 <b>BAR</b> to <b>BAR</b> - R171 <b>BAR</b> to TORES	D8.3 / R330 <b>BAR</b> MNM <b>6400</b> <b>BAR</b> MNM <b>8000</b>

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**BR-C-SAZS****5-20****MIMAK 1 / KOVAK 4A**

SIDPT

**KOVAK 4A / MIMAK 1**

RWYs 11 (108°) / 29 (288°)

	GS	120	150	180	210	240	270
3.5%	ft/MIN	500	600	700	800	900	1000
4.5%	ft/MIN	600	700	900	1000	1100	1300
5.0%	ft/MIN	700	800	1000	1100	1300	1400

DESIGNATOR	ROUTING	ALTITUDES
<b>Runway 11</b>		
<b>KOVAK 4A</b> 5.0% to KOVAK	at MNM <b>3400 RT</b> intercept R120 <b>BAR</b> to KOVAK	KOVAK MNM <b>5100</b>
<b>TRANSITION</b>		
3.5% (Transitions: ALGIL, ATIRA, ATOMO, CHATO, LIMAY, ORERA) 5.0% to 7300		
<b>ALGIL</b> at KOVAK <b>LT</b> follow D12 <b>BAR</b> arc - intercept R356 <b>BAR</b> to ALGIL		
<b>ATAKO</b> at KOVAK <b>RT</b> follow D12 <b>BAR</b> arc - intercept R142 <b>BAR</b> to ATAKO		
<b>ATIRA</b> at KOVAK <b>LT</b> - intercept R110 <b>BAR</b> to ATIRA		
<b>ATOMO</b> at KOVAK <b>LT</b> follow D12 <b>BAR</b> arc - intercept R083 <b>BAR</b> to ATOMO		
<b>CHATO</b> at KOVAK <b>LT</b> follow D12 <b>BAR</b> arc - intercept R007 <b>BAR</b> to CHATO		
<b>LIMAY</b> at KOVAK <b>LT</b> follow D12 <b>BAR</b> arc - intercept R041 <b>BAR</b> to LIMAY		
<b>ORERA</b> at KOVAK <b>LT</b> follow D12 <b>BAR</b> arc - intercept R067 <b>BAR</b> to ORERA		
<b>TONAR</b> at KOVAK <b>LT</b> follow D12 <b>BAR</b> arc - intercept R045 <b>BAR</b> to <b>BAR</b> - R251 <b>BAR</b> to TONAR		D12 / R045 <b>BAR</b> MNM <b>FL95</b> <b>BAR</b> MNM <b>FL130</b>
<b>TORES</b> at KOVAK <b>RT</b> follow D12 <b>BAR</b> arc - intercept R171 <b>BAR</b> to TORES		D12 / R155 <b>BAR</b> MNM <b>7300</b>
<b>Runway 29</b>		
<b>MIMAK 1</b> 4.5% <b>119.100</b>	direct <b>BAR</b> - R271 <b>BAR</b> to MIMAK - <b>RT</b> intercept R331 <b>BAR</b> to <b>BAR</b> - enter holding over <b>BAR</b> - climb to MEA	MIMAK MNM <b>4600</b> D6 / R331 <b>BAR</b> MNM <b>6400</b> <b>BAR</b> MNM <b>8000</b>

05-APR-2018

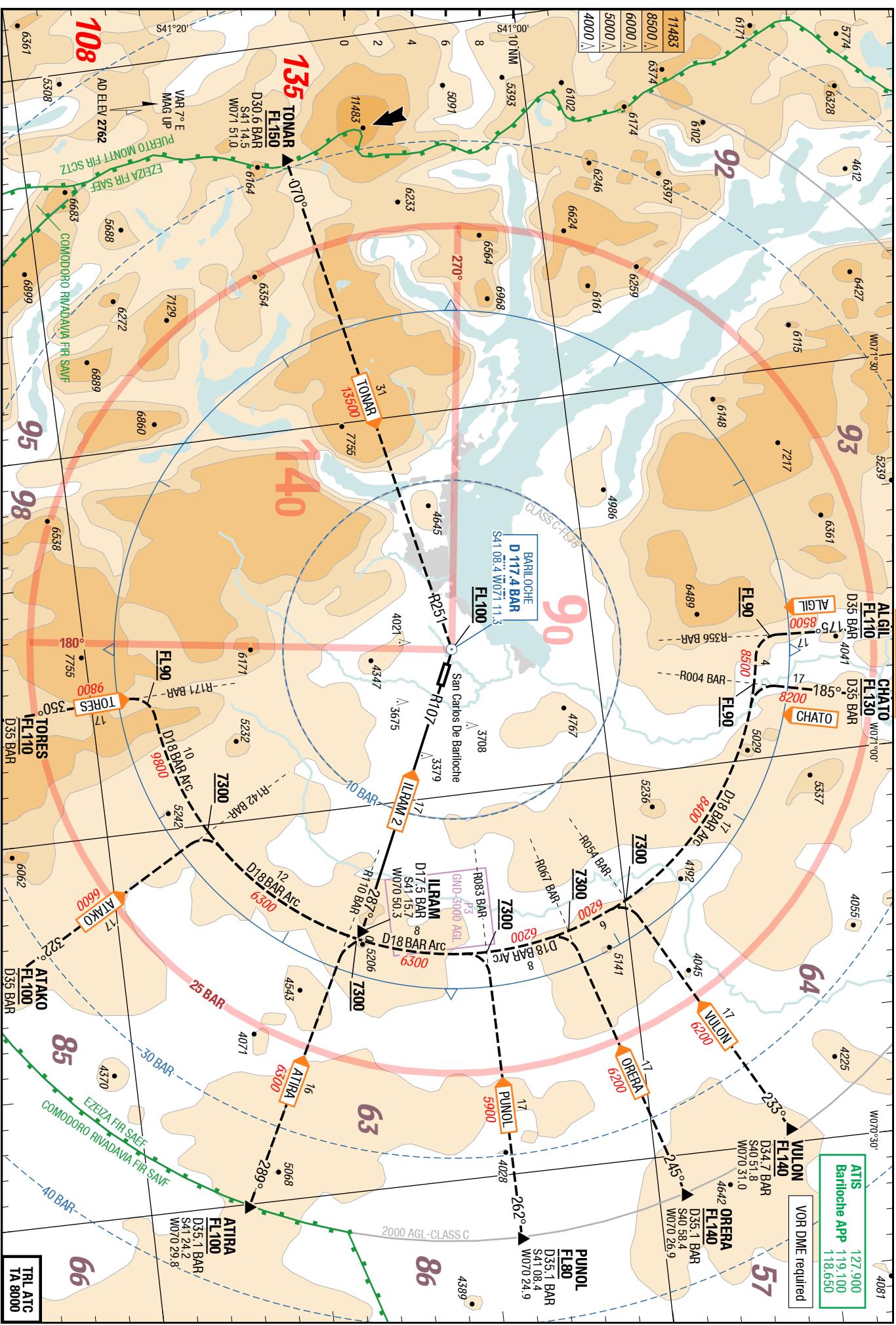
**BRCSAZS**

**Argentina San Carlos De Bariloche Rio Negro**  
**VULON 1RNAV**

**ILRAM 2**      **STAR**      **STAR**  
**ILRAM 2**

**Rio Negro San Carlos De Bariloche Argentina**  
**VULON 1RNAV**

6-10



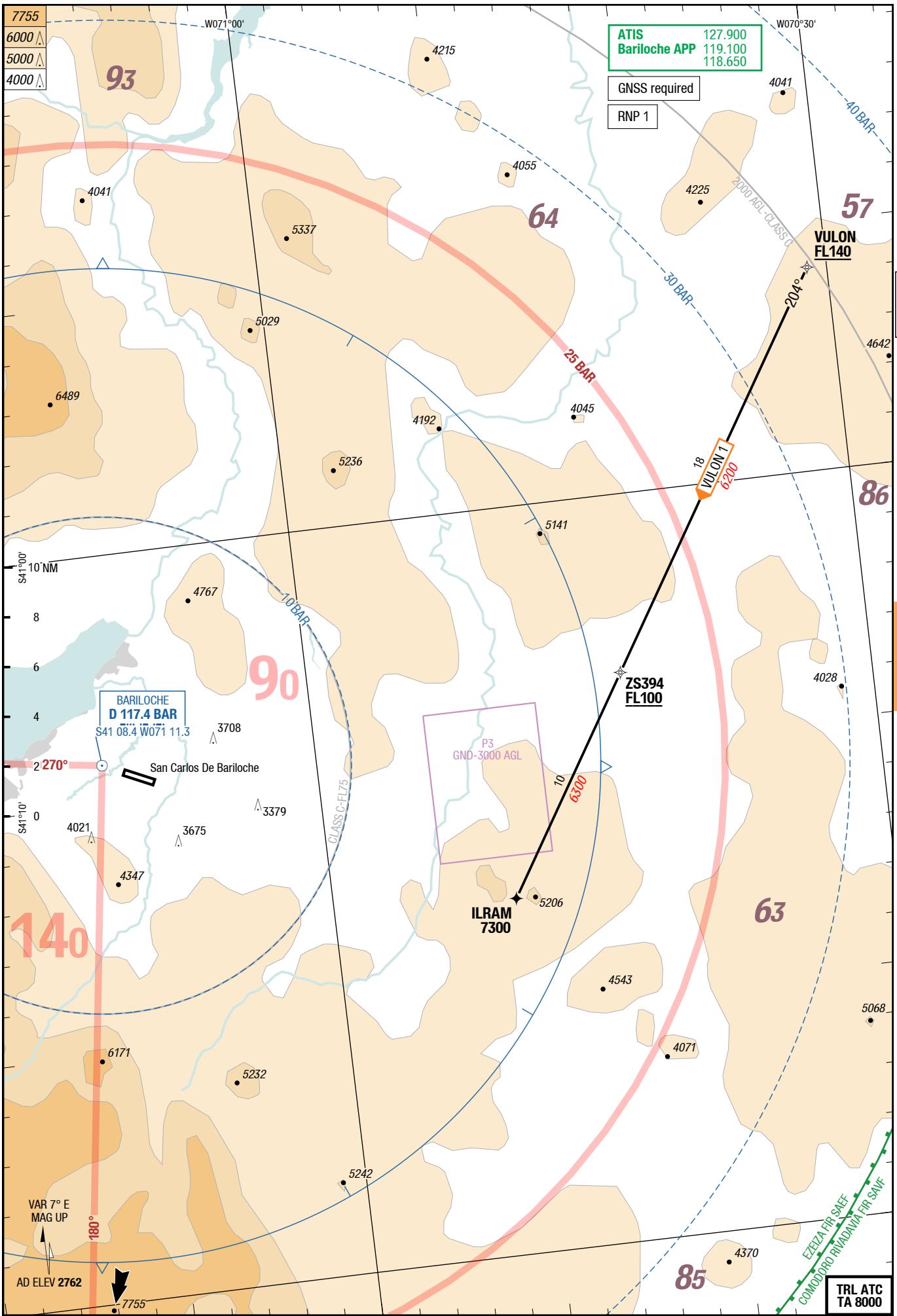
05-APR-2018

**BRG-SAZS**

**Argentina San Carlos De Bariloche Rio Negro**  
**6-20**  
**VULON 1 RNAV**

**STAR**  
**STAR**

**VULON 1 RNAV**  
**Rio Negro San Carlos De Bariloche Argentina**

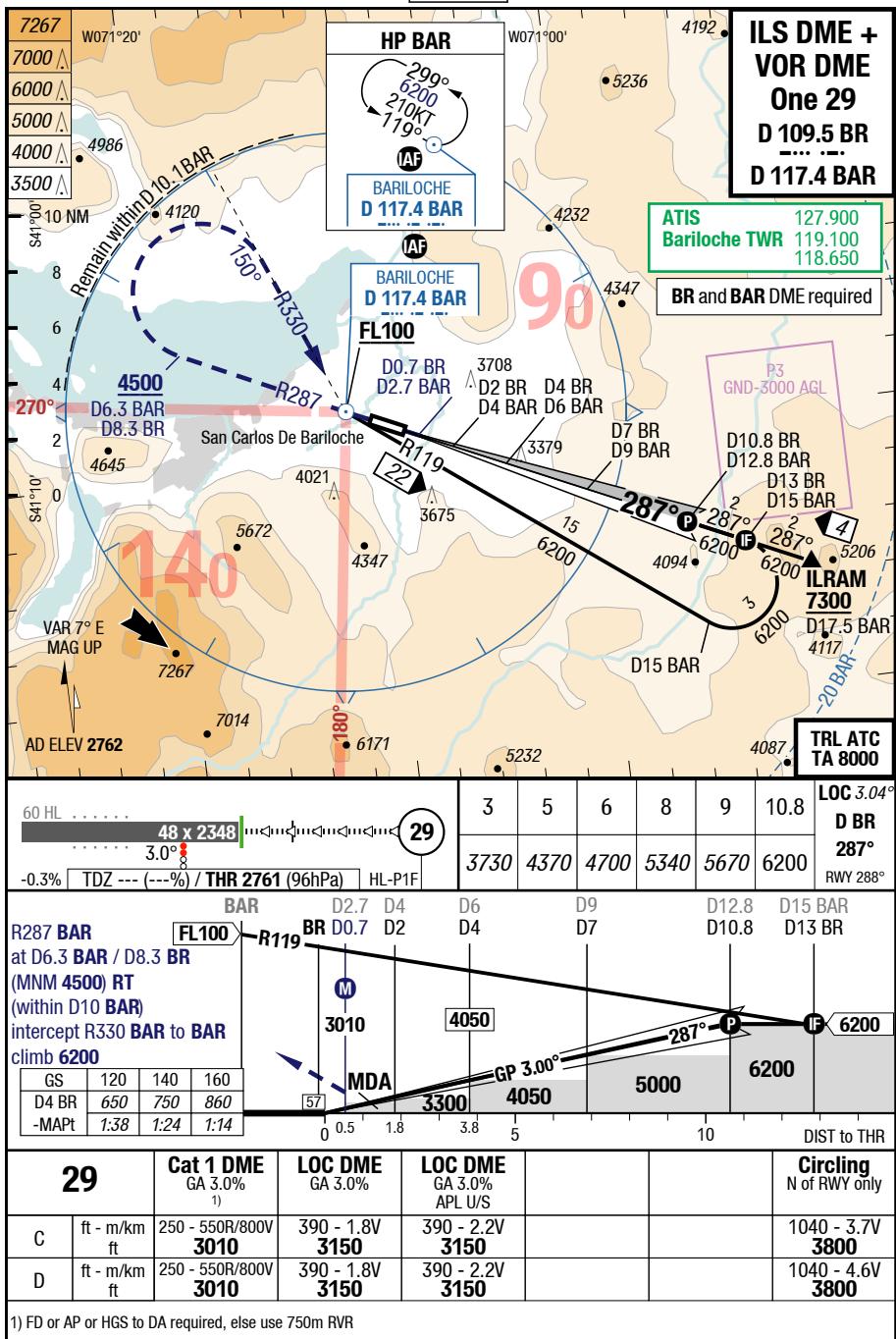


05-APR-2018

## BR-SAZS

7-10

## ILS DME + VOR DME One 29



Changes: new

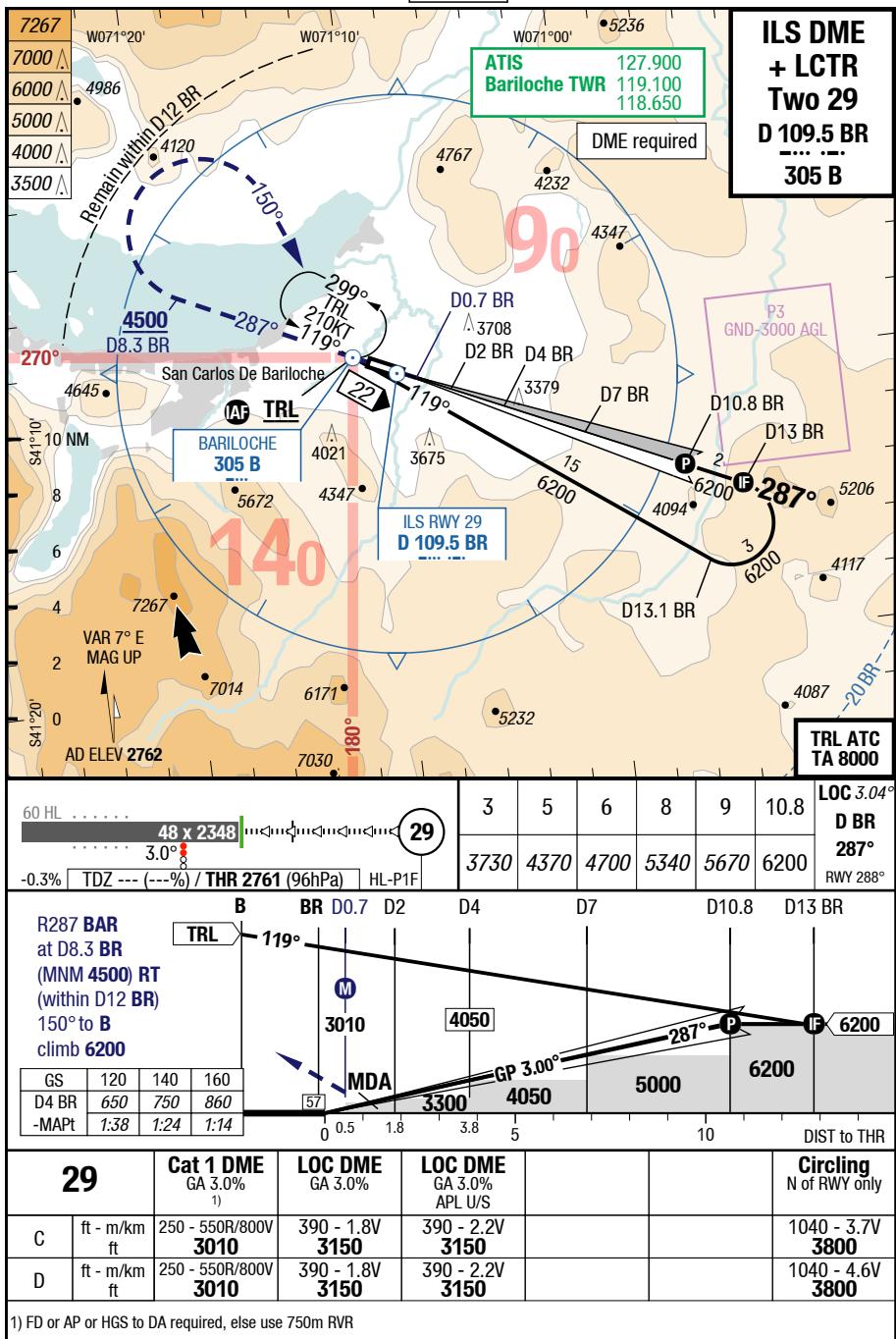
05-APR-2018

## BR-SAZS

7-20

## ILS DME + LCTR Two 29

IAC



Changes: new

7-30

RNP Z 29

IAC

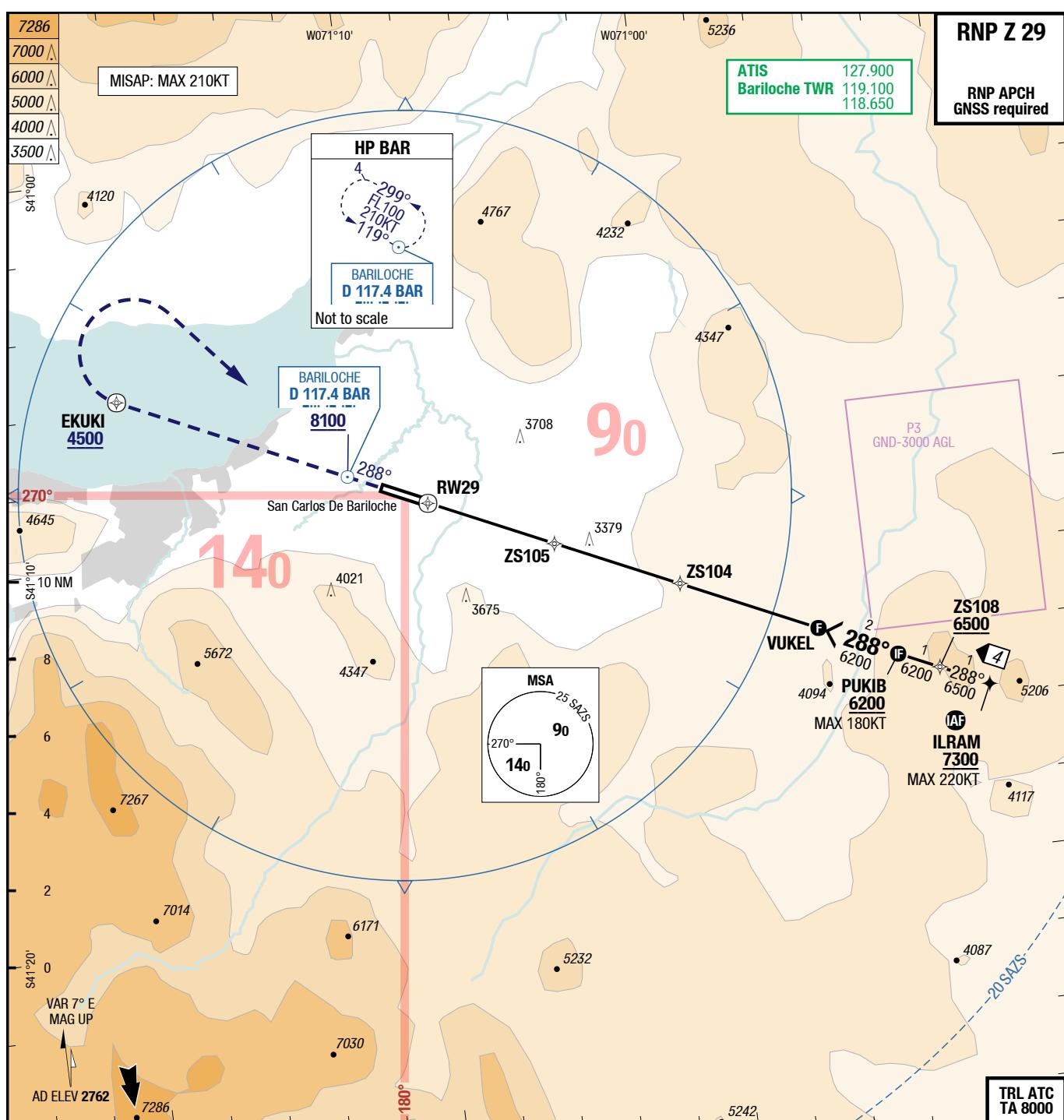
RNP Z 29

RNP Y 29

RW29  
S41 09.3  
W071 08.7

**RNP Z 29**  
RNP APCH  
GNSS required

ATIS  
Bariloche TWR 127.900  
119.100  
118.650



	29	2	4	5	6	8	10.6	3.00° RW29
60 HL .....	48 x 2348							
..... 3.0°								
-0.3% TDZ --- (---%) / THR 2761 (96hPa) HL-P1F								

	RNP VNAV GA 3.3% 1) 2) 3) 4)	RNP LNAV GA 3.3%	RNP LNAV GA 3.3%, APL U/S				Circling
C	ft - m/km ft	310 - 700R/800V <b>3070</b>	360 - 1.3V <b>3120</b>	360 - 2.0V <b>3120</b>			Not authorized
D	ft - m/km ft	310 - 700R/800V <b>3070</b>	360 - 1.3V <b>3120</b>	360 - 2.0V <b>3120</b>			Not authorized

1) FD or AP or HGS to DA required, else use 750m RVR 2) Uncompensated BARO VNAV NA below -20°C (-4°F) or above 50°C (122°F)  
3) SBAS use for VNAV not applicable or not authorized 4) With EVS RVR 550m/ VIS 800m

24-MAY-2018

BRC-SAZS

7-40

RNP Y 29

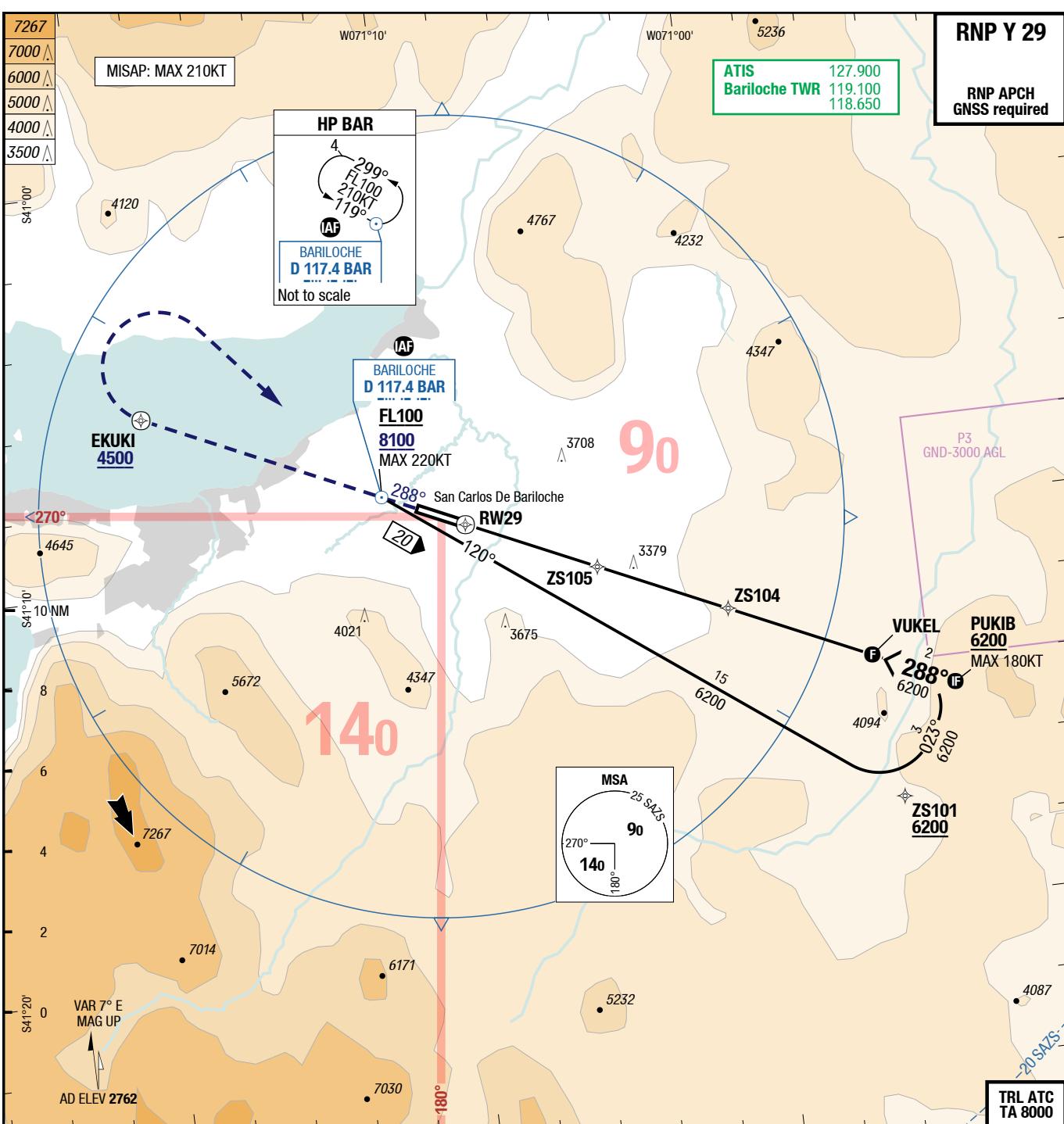
IAC  
IAC

RNP Y 29

Argentina San Carlos De Bariloche Rio Negro

Rio Negro San Carlos De Bariloche Argentina

Changes: New



60 HL .....	48 x 2348	29	2	4	5	6	8	10.6	3.0° RW29
.....	3.0°		3450	4090	4410	4730	5360	6200	
-0.3% TDZ --- (--%)/THR 2761 (96hPa) HL-P1F									

RW29				3.5	ZS105	6.9	ZS104	10.6	12.8 RW29
288° at EKUKI (MMN 4500)	RT direct BAR	climb 8100	(MISAP MAX 210KT)						
					3910		5000		

**GS** 120 140 160

**ZS104** 640 740 850

**-MAPt** 3.26 2.57 2.35

**MDA** 50

**3850**

**4270**

**5600**

**RW29 S41 09.3 W071 08.7**

**DIST to THR**

29	RNP VNAV GA 3.3% 1) 2) 3) 4)	RNP LNAV GA 3.3%	RNP LNAV GA 3.3%, APL U/S	Circling
C	ft - m/km ft	310 - 700R/800V <b>3070</b>	360 - 1.3V <b>3120</b>	360 - 2.0V <b>3120</b>
D	ft - m/km ft	310 - 700R/800V <b>3070</b>	360 - 1.3V <b>3120</b>	360 - 2.0V <b>3120</b>

1) Uncompensated BARO VNAV NA below -20°C (-4°F) or above 50°C (122°F) 2) FD or AP or HGS to DA required, else use 750m RVR  
3) SBAS use for VNAV not applicable or not authorized 4) With EVS RVR 550m/ VIS 800m

Effective 24-MAY-2018

17-MAY-2018

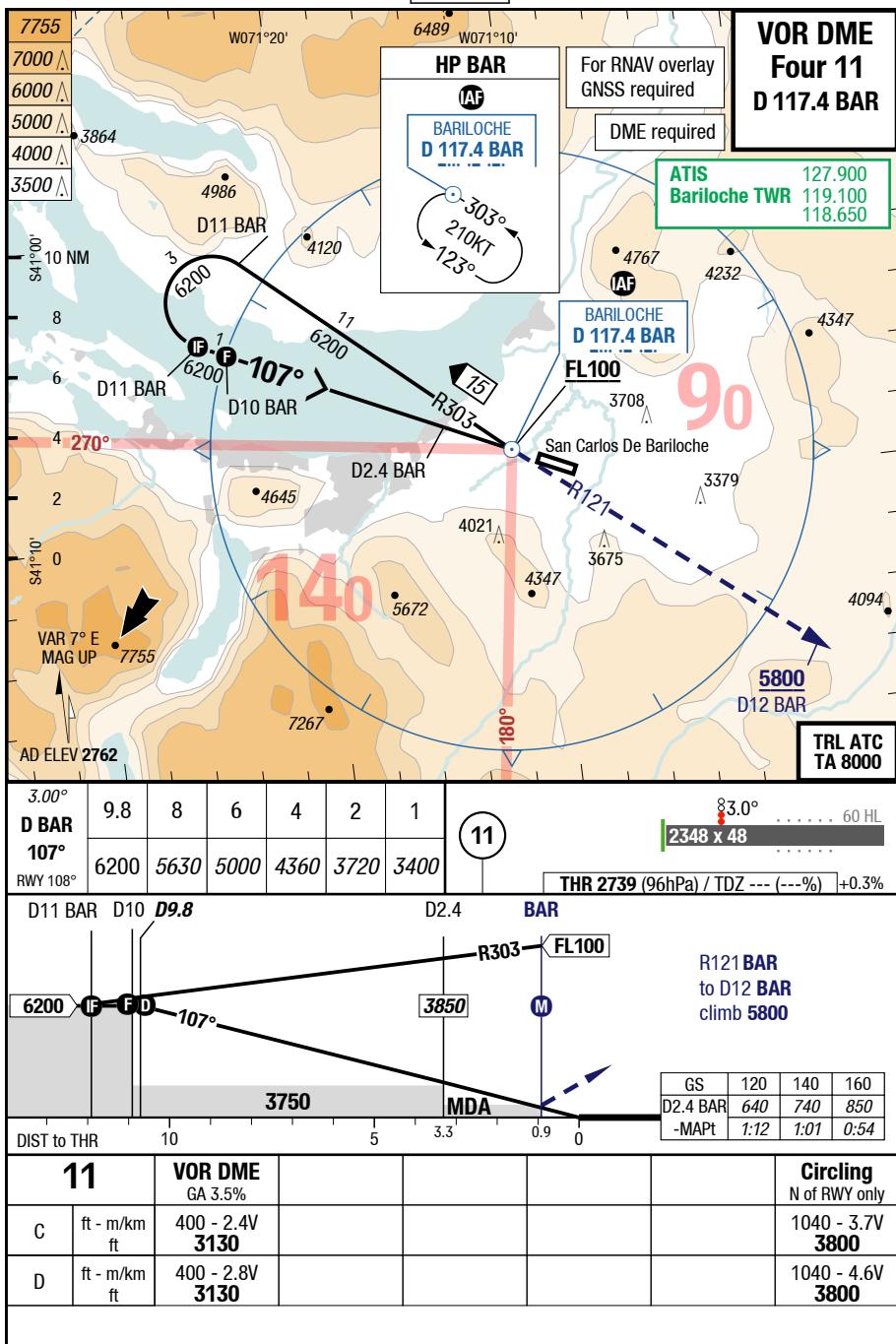
Argentina San Carlos De Bariloche Rio Negro

## BRCA-SAZS

7-50

## VOR DME Four 11

IAC



## BR-SAZS

7-60

## VOR DME Three 29

