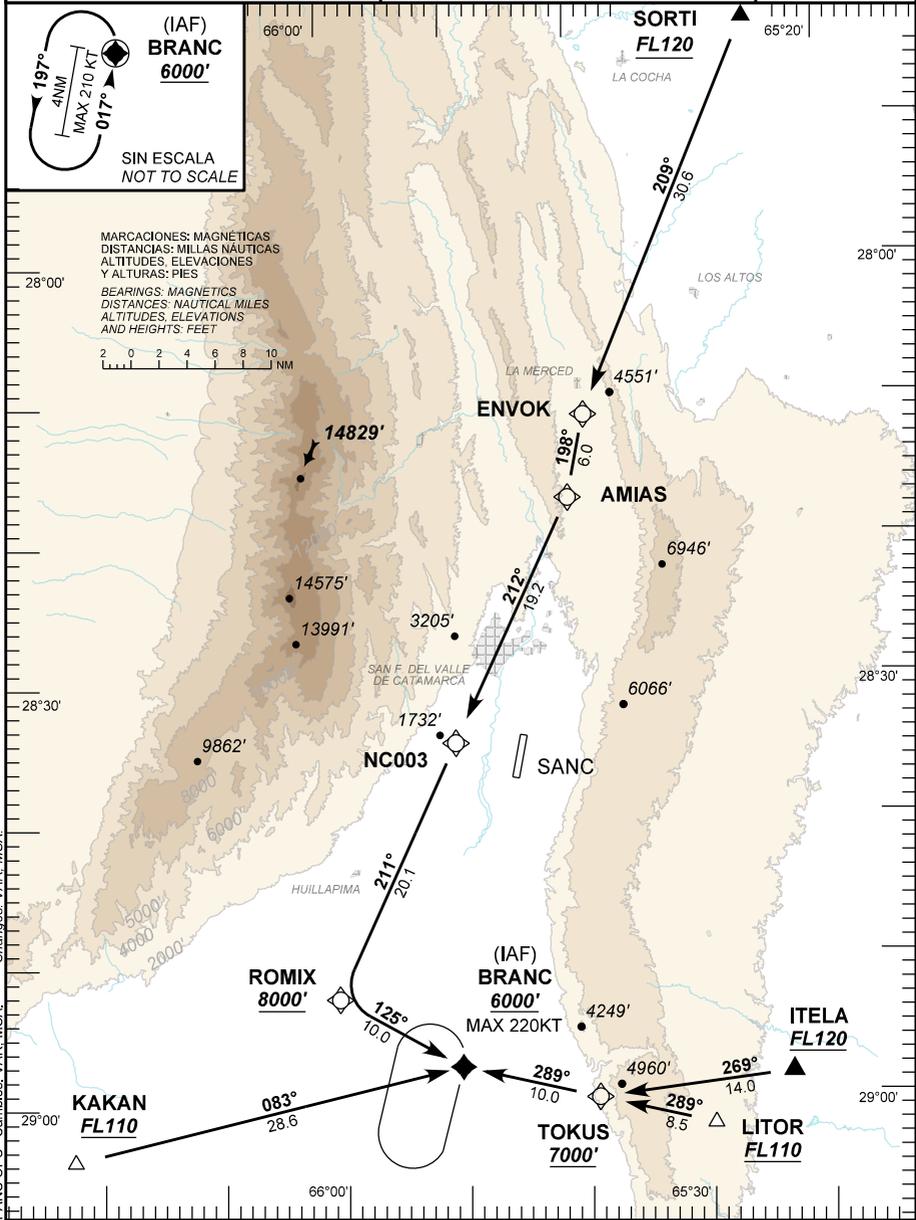
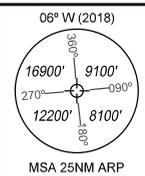


CATAMARCA (SANC)
CATAMARCA

STAR RNP RWY 02
ITELA 1M - LITOR 1M - KAKAN 1M - SORTI 1M

Requiere Certificación Certification required			AD ELEV	1556'
RNP 1 / RNAV 1 GNSS			TRANS ALT	8000'
CATAMARCA CTL	CATAMARCA APP	CATAMARCA TWR	EMERG	
118.15 119.90	118.15 119.90	118.15 119.90	121.50	
NOTA: Nivel de Transición asignado por ATC.		RMK: Transition level assigned by ATC.		
				MSA 25NM ARP



MARCACIONES: MAGNÉTICAS
DISTANCIAS: MILLAS NÁUTICAS
ALTITUDES: ELEVACIONES
Y ALTURAS: PIES

BEARINGS: MAGNETICS
DISTANCES: NAUTICAL MILES
ALTITUDES: ELEVATIONS
AND HEIGHTS: FEET

2 0 2 4 6 8 10 NM

Changes: VAR. MSA.
PANS OPS Cambios: VAR. MSA.

DISEÑO EANA S.E. - NAVEGACION AEREA ARGENTINA
DIRECCION REGULACION NORMAS Y PROCEDIMIENTOS - DNINA

31 ENERO 2019

CATAMARCA (SANC) STAR RNP RWY 02 ITEL1M – LITO1M – KAKA1M – SORT1M	
FIX IDENT	COORDINATES
ITELA	28°58'28.00"S 065°23'27.00"W
KAKAN	29°03'41.00"S 066°22'14.00"W
LITOR	29°02'02.00"S 065°29'55.00"W
TOKUS	29°00'01.06"S 065°39'19.03"W
ROMIX	28°52'36.52"S 066°00'15.29"W
NC003	28°34'31.46"S 065°50'15.05"W
BRANC	28°57'37.66"S 065°50'23.42"W
AMIAS	28°17'11.38"S 065°40'39.61"W
ENVOK	28°11'18.23"S 065°39'15.27"W
SORTI	27°43'05.00"S 065°25'34.00"W

31 ENERO 2019

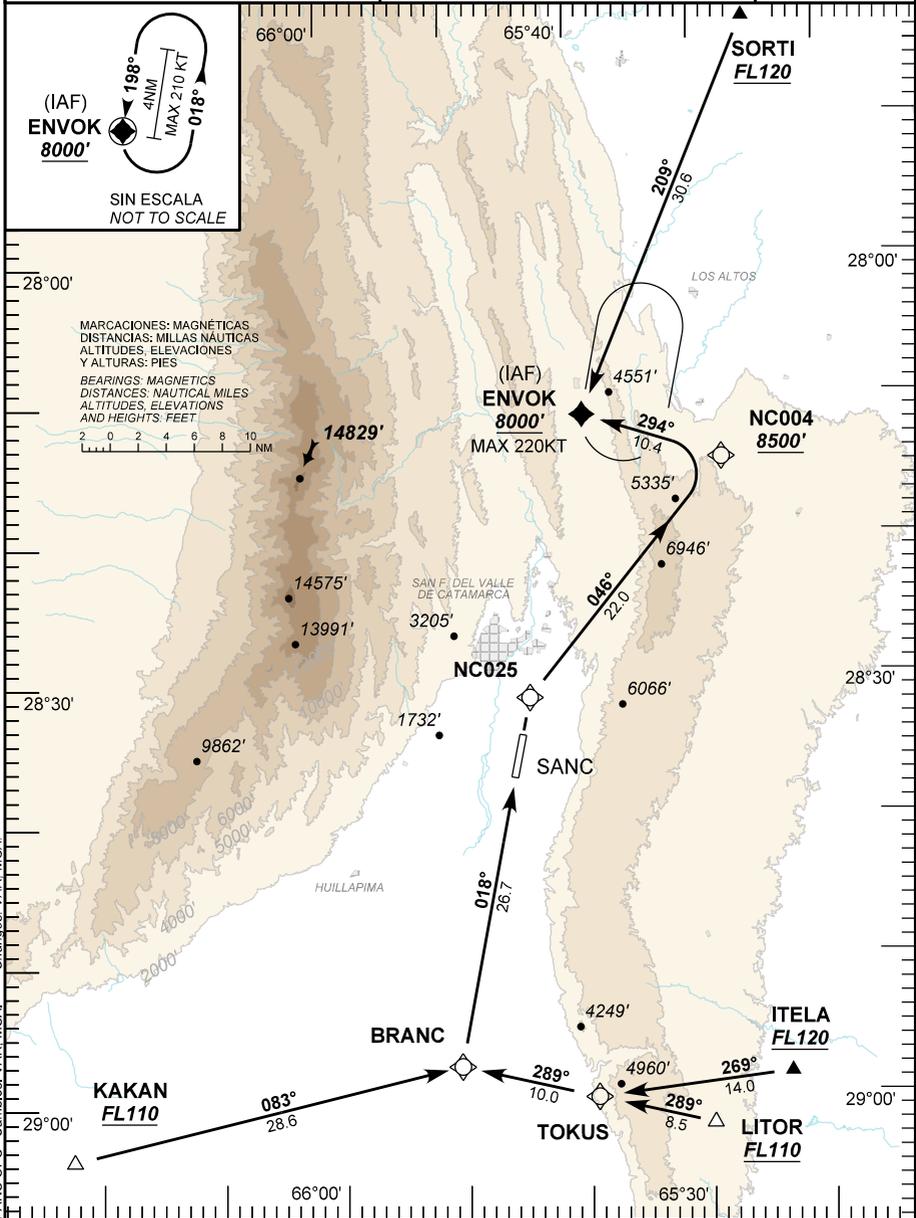
CATAMARCA (SANC) STAR RNP RWY 02 ITEL1M – LITO1M – KAKA1M – SORT1M												
Seq Num	Fix Ident	Path Terminator	Fly Over	Distance (NM)	Course M° (T°)	Turn	Altitude (ft/FL)	Altitude Description	Speed Limit (Kt)	Navigation Specification	RNP	Dec (ARP 2018)
010	SORTI	IF	N/A	N/A	N/A	N/A	FL 120	+	N/A	RNAV1 o RNP 1	1.0	6 W
020	ENVOK	TF	N	30.6	209 (203.4)	N/A	N/A	N/A	N/A	RNAV1 o RNP 1	1.0	6 W
030	AMIAS	TF	N	6.0	198 (191.9)	N/A	N/A	N/A	N/A	RNAV1 o RNP 1	1.0	6 W
040	NC003	TF	N	19.2	212 (206.1)	N/A	N/A	N/A	N/A	RNAV1 o RNP 1	1.0	6 W
050	ROMIX	TF	N	20.1	211 (206.0)	N/A	8000	+	N/A	RNAV1 o RNP 1	1.0	6 W
060	BRANC	TF	N	10.0	125 (120.0)	N/A	6000	+	-220	RNAV1 o RNP 1	1.0	6 W
010	ITELA	IF	N	N/A	N/A	N/A	FL 120	+	N/A	RNAV1 o RNP 1	1.0	6 W
020	TOKUS	TF	N	14.0	269 (263.7)	N/A	7000	+	N/A	RNAV1 o RNP 1	1.0	6 W
030	BRANC	TF	N	10.0	289 (283.8)	N/A	6000	+	-220	RNAV1 o RNP 1	1.0	6 W
010	LITOR	IF	N	N/A	N/A	N/A	FL 110	+	N/A	RNAV1 o RNP 1	1.0	6 W
020	TOKUS	TF	N	8.5	289 (283.7)	N/A	7000	+	N/A	RNAV1 o RNP 1	1.0	6 W
030	BRANC	TF	N	10.0	289 (283.8)	N/A	6000	+	-220	RNAV1 o RNP 1	1.0	6 W
010	KAKAN	IF	N	N/A	N/A	N/A	FL 110	+	N/A	RNAV1 o RNP 1	1.0	6 W
020	BRANC	TF	N	28.6	083 (77.7)	N/A	6000	+	-220	RNAV1 o RNP 1	1.0	6 W

31 ENERO 2019

CATAMARCA (SANC)
CATAMARCA

STAR RNP RWY 20
ITELA 1Q - LITOR 1Q - KAKAN 1Q - SORTI 1Q

Requiere Certificación <i>Certification required</i>				AD ELEV 1556'	
RNP 1 / RNAV 1 GNSS				TRANS ALT 8000'	
CATAMARCA CTL 118.15 119.90	CATAMARCA APP 118.15 119.90	CATAMARCA TWR 118.15 119.90	EMERG 121.50		
NOTA: Nivel de Transición asignado por ATC.		RMK: <i>Transition level assigned by ATC.</i>			



31 ENERO 2019

CATAMARCA (SANC) STAR RNP RWY 20 ITEL1Q – LITO1Q – KAKA1Q – SORT1Q	
FIX IDENT	COORDINATES
ITELA	28°58'28.00"S 065°23'27.00"W
KAKAN	29°03'41.00"S 066°22'14.00"W
LITOR	29°02'02.00"S 065°29'55.00"W
TOKUS	29°00'01.06"S 065°39'19.03"W
NC004	28°14'30.88"S 065°28'03.29"W
BRANC	28°57'37.66"S 065°50'23.42"W
NC025	28°31'25.41"S 065°44'04.34"W
ENVOK	28°11'18.23"S 065°39'15.27"W
SORTI	27°43'05.00"S 065°25'34.00"W

31 ENERO 2019

CATAMARCA (SANC) STAR RNP RWY 20 ITEL1Q – LITO1Q – KAKA1Q – SORT1Q

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	LITOR	IF	N	N/A	N/A	N/A	FL 110	+	N/A	RNAV1 o RNP 1	1.0	6 W
020	TOKUS	TF	N	8.5	289 (283.7)	N/A	N/A	N/A	N/A	RNAV1 o RNP 1	1.0	6 W
030	BRANC	TF	N	10.0	289 (283.8)	N/A	N/A	N/A	N/A	RNAV1 o RNP 1	1.0	6 W
040	NC025	TF	N	26.7	018 (012.0)	N/A	N/A	N/A	N/A	RNAV1 o RNP 1	1.0	6 W
050	NC004	TF	N	22.0	046 (039.9)	N/A	8500	+	N/A	RNAV1 o RNP 1	1.0	6 W
060	ENVOK	TF	N	10.4	294 (288.0)	N/A	8000	+	-220	RNAV1 o RNP 1	1.0	6 W
010	ITELA	IF	N	N/A	N/A	N/A	FL 120	+	N/A	RNAV1 o RNP 1	1.0	6 W
020	TOKUS	TF	N	14.0	269 (263.7)	N/A	N/A	N/A	N/A	RNAV1 o RNP 1	1.0	6 W
030	BRANC	TF	N	10.0	289 (283.8)	N/A	N/A	N/A	N/A	RNAV1 o RNP 1	1.0	6 W
040	NC025	TF	N	26.7	018 (012.0)	N/A	N/A	N/A	N/A	RNAV1 o RNP 1	1.0	6 W
050	NC004	TF	N	22.0	046 (039.9)	N/A	8500	+	N/A	RNAV1 o RNP 1	1.0	6 W
060	ENVOK	TF	N	10.4	294 (288.0)	N/A	8000	+	-220	RNAV1 o RNP 1	1.0	6 W
010	KAKAN	IF	N	N/A	N/A	N/A	FL 110	+	N/A	RNAV1 o RNP 1	1.0	6 W
020	BRANC	TF	N	28.6	083 (077.7)	N/A	N/A	N/A	N/A	RNAV1 o RNP 1	1.0	6 W
030	NC025	TF	N	26.7	018 (012.0)	N/A	N/A	N/A	N/A	RNAV1 o RNP 1	1.0	6 W
040	NC004	TF	N	22.0	046 (039.9)	N/A	8500	+	N/A	RNAV1 o RNP 1	1.0	6 W
050	ENVOK	TF	N	10.4	294 (288.0)	N/A	8000	+	-220	RNAV1 o RNP 1	1.0	6 W
010	SORTI	IF	N	N/A	N/A	N/A	FL 120	+	N/A	RNAV1 o RNP 1	1.0	6 W
020	ENVOK	TF	N	30.6	209 (203.4)	N/A	8000	+	-220	RNAV1 o RNP 1	1.0	6 W

31 ENERO 2019