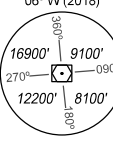
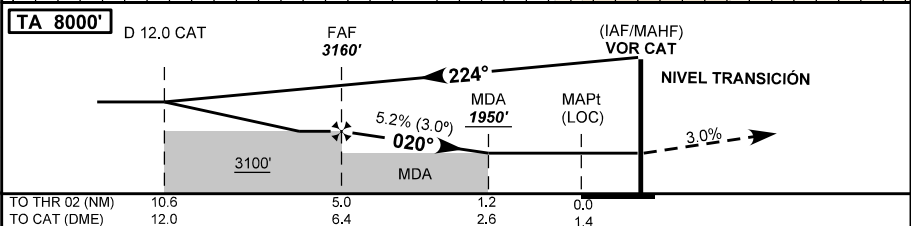
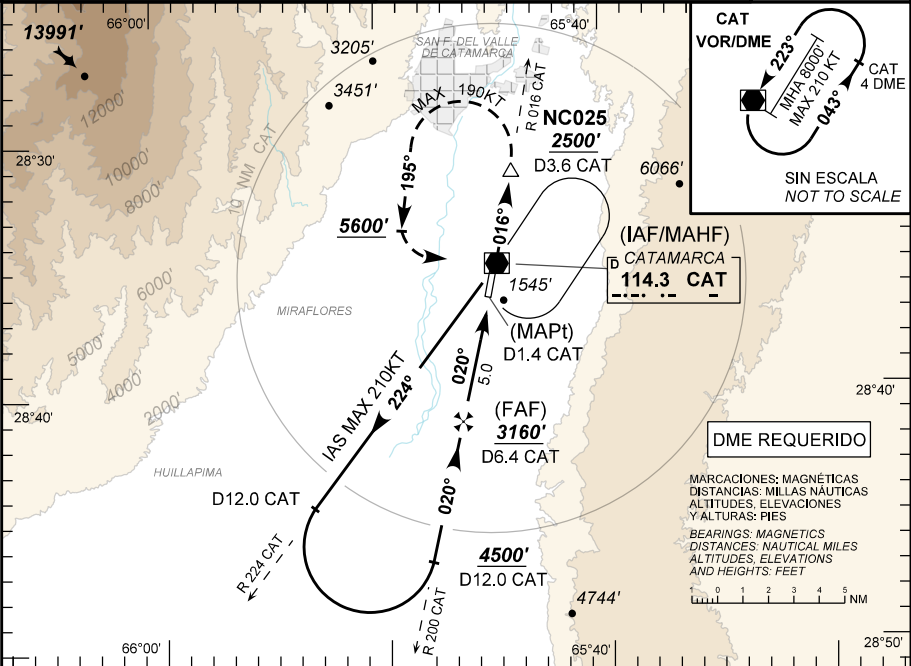


CATAMARCA (SANC)  
CATAMARCA

Carta de aproximación por instrumentos  
Instrument approach chart

VOR RWY 02

| CATAMARCA CTL                                                                                                                                                    |                | CATAMARCA APP   |                                                                                                     | CATAMARCA TWR |        | CATAMARCA GND                                                                                              | EMERG  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|-----------------|-----------------------------------------------------------------------------------------------------|---------------|--------|------------------------------------------------------------------------------------------------------------|--------|
| 118.15                                                                                                                                                           | 119.90         | 118.15          | 119.90                                                                                              | 118.15        | 119.90 | 118.15                                                                                                     | 121.50 |
| VOR CAT                                                                                                                                                          | FINAL APCH CRS | ALTITUD MNM FAF | MDA (H)                                                                                             | AD Elev       | 1556'  | <div>06° W (2018)</div>  |        |
| 114.3                                                                                                                                                            | 020°           | 3160' (1652')   | 1950' (442')                                                                                        | THR Elev      | 1508'  |                                                                                                            |        |
| Aproximación frustrada: ASC por el R 016 CAT a NC025 MNM 2500 ft, posterior viraje izquierda rumbo 195° alcanzando 5600 ft, DCT CAT VOR en ASC 8000 ft y espera. |                |                 |                                                                                                     |               |        |                                                                                                            |        |
| Missed approach: Climb on R 016 CAT to NC025 MNM 2500 ft, turn left heading 195° reaching 5600 ft, then DCT to CAT VOR climbing 8000 ft and HOLD.                |                |                 |                                                                                                     |               |        |                                                                                                            |        |
| NOTA: 1) Gradiente MNM ASC 3.0%.<br>2) Circulación visual al OESTE.                                                                                              |                |                 | RMK: 1) MNM Missed Approach Climb Gradient 3.0%.<br>2) Circling to land only WEST of the Aerodrome. |               |        | MSA 25NM CAT                                                                                               |        |



| CAT               | DIRECTA RWY 02 / <i>Straight in RWY 02</i> |      |      |          |      |              |        | Circulación Visual<br><i>Circle to land</i> |        |       |        |
|-------------------|--------------------------------------------|------|------|----------|------|--------------|--------|---------------------------------------------|--------|-------|--------|
|                   | VOR/DME                                    |      |      |          |      |              |        |                                             |        |       |        |
|                   | MDA 1950'                                  |      |      | MDH 442' |      |              |        | CAT                                         | MDA    | MDH   | VIS    |
|                   | VIS                                        |      |      |          |      |              |        |                                             |        |       |        |
| A                 | 2300 M                                     |      |      |          |      |              |        | A                                           | 2100'  | 592'  | 2300 M |
| B                 |                                            |      |      |          |      |              |        | B                                           |        |       | 2800 M |
| C                 |                                            |      |      |          |      |              |        | C                                           |        |       | 3700 M |
| D                 | 2500 M                                     |      |      |          |      |              |        | D                                           | 2300'  | 792'  | 4600 M |
| GS KT             | 90                                         | 110  | 130  | 150      | 160  | DIST to MAPt | 5      | 4                                           | 3      | 2     | 1.2    |
| FAF - MAPt 5,0 NM | 3:20                                       | 2:44 | 2:19 | 2:00     | 1:53 | ALT          | 3160   | 2831                                        | 2513   | 2195  | 1950   |
| FPM               | 480                                        | 580  | 690  | 800      | 850  | HGT          | (1642) | (1323)                                      | (1005) | (687) | (442)  |

31 ENERO 2019

CATAMARCA (SANC)  
CATAMARCA

Carta de aproximación por instrumentos  
Instrument approach chart

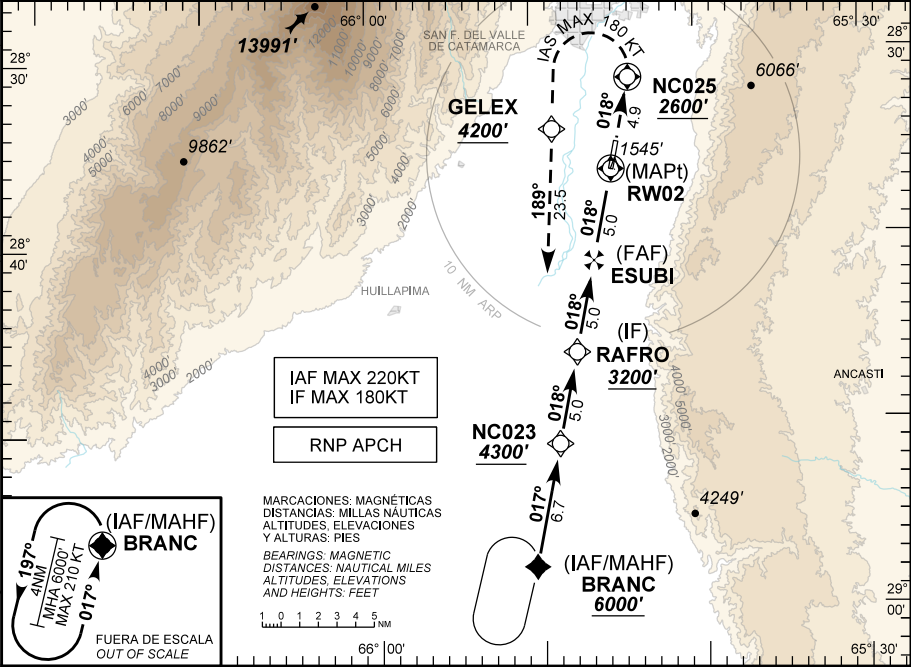
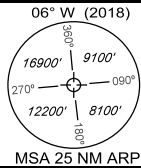
RNP RWY 02

| CATAMARCA CTL |                | CATAMARCA APP |         | CATAMARCA TWR |        | EMERG           |
|---------------|----------------|---------------|---------|---------------|--------|-----------------|
| 118.15        | 119.90         | 118.15        | 119.90  | 118.15        | 119.90 | 121.50          |
| RNP           | FINAL APCH CRS | ALTITUD MNM   | ESUBI   | LNAV/VNAV     | DA(H)  | AD Elev.        |
|               | 018°           | 3160'         | (1652') | 1780'         | (272') | 1556'           |
|               |                |               |         |               |        | THR Elev. 1508' |

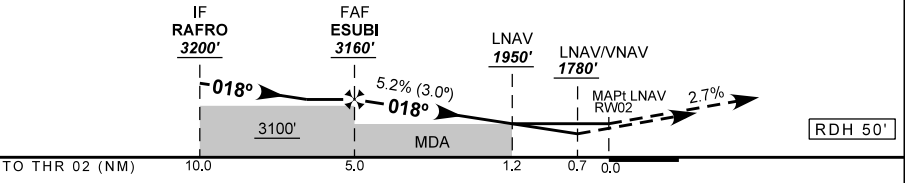
Aproximación frustrada: ASC para NC025 MNM 2600 ft, virar a la izquierda DCT GELEX MNM 4200 ft, continuar ascenso a BRANC, HLDG y seguir Instrucciones del ATC. (NOTA: Gradiente MNM 2.7%).  
Missed approach: Climb to NC025 MNM 2600 ft, turn left DCT GELEX MNM 4200 ft, continue climb to BRANC and HLDG and proceed as directed by ATC. (NOTE: MNM gradient 2.7%).

NOTA: Para sistemas Baro VNAV no compensado, debajo de -10° C o Superior a 50° C N.A.

NOTE: For uncompensated Baro VNAV systems N.A. below -10° C or above 50° C.



TA 8000'



| DIRECTA RWY 02 / Straight in RWY 02 |             |         |           |      |          | Circulación Visual |                                                |        |        |
|-------------------------------------|-------------|---------|-----------|------|----------|--------------------|------------------------------------------------|--------|--------|
| CAT                                 | LNAV / VNAV |         | LNAV      |      | MDH 442' | Circle to land     |                                                |        |        |
|                                     | DA 1780'    | DH 272' | MDA 1950' |      |          | CAT                | MDA                                            | MDH    | VIS    |
| A                                   | VIS         |         | VIS       |      |          | A                  |                                                |        |        |
| B                                   | 1300 M      |         | 2300 M    |      |          | B                  | Circulación Visual N.A.<br>Circle to land N.A. |        |        |
| C                                   |             |         | 2500 M    |      |          | C                  |                                                |        |        |
| D                                   | N.A.        |         |           |      |          | D                  |                                                |        |        |
| GS KT                               | 90          | 110     | 130       | 150  | 160      | DIST to MAPt       | 5.0                                            | 4.0    | 3.0    |
| FAF - MAPt 5.0 NM                   | 3:20        | 2:44    | 2:18      | 2:00 | 1:53     | ALT                | 3160                                           | 2830   | 2510   |
| FPM                                 | 480         | 590     | 690       | 800  | 850      | HGT                | (1652)                                         | (1322) | (1002) |

| CATAMARCA (SANC) RNP RWY 02 |                              |
|-----------------------------|------------------------------|
| FIX IDENT                   | COORDINATES                  |
| ESUBI                       | 28°41'13.89"S 065°46'25.78"W |
| RAFRO                       | 28°46'08.10"S 065°47'36.71"W |
| NC023                       | 28°51'02.30"S 065°48'47.76"W |
| BRANC                       | 28°57'37.66"S 065°50'23.42"W |
| NC025                       | 28°31'25.41"S 065°44'04.34"W |
| GELEX                       | 28°34'06.96"S 065°48'46.87"W |
| RW02                        | 28°36'19.67"S 065°45'14.95"W |

21 ABRIL 2022

| CATAMARCA (SANC) RNP RWY 02 |              |                    |             |                  |                   |      |                     |                        |                             |     |                   |
|-----------------------------|--------------|--------------------|-------------|------------------|-------------------|------|---------------------|------------------------|-----------------------------|-----|-------------------|
| Seq<br>Num                  | Fix<br>Ident | Path<br>Terminator | Fly<br>Over | Distance<br>(NM) | Course<br>M° (T°) | Turn | Altitude<br>(ft/FL) | Speed<br>Limit<br>(Kt) | Navigation<br>Specification | RNP | Dec<br>(ARP 2018) |
| 010                         | BRANC        | IF                 | N/A         | N/A              | N/A               | N/A  | +6000               | -220                   | RNP APCH                    | 1.0 | 6 W               |
| 020                         | NC023        | TF                 | N           | 6.7              | 017 (012.0)       | N/A  | +4300               | N/A                    | RNP APCH                    | 1.0 | 6 W               |
| 030                         | RAFRO        | TF                 | N           | 5.0              | 018 (012.0)       | N/A  | +3200               | -180                   | RNP APCH                    | 1.0 | 6 W               |
| 010                         | RAFRO        | IF                 | N           | N/A              | N/A               | N/A  | +3200               | -180                   | RNP APCH                    | 1.0 | 6 W               |
| 020                         | ESUBI        | TF                 | N           | 5.0              | 018 (012.0)       | N/A  | +3160               | N/A                    | RNP APCH                    | 1.0 | 6 W               |
| 030                         | RW02         | TF                 | Y           | 5.0              | 018 (012.0)       | N/A  | @1558               | N/A                    | RNP APCH                    | 0.3 | 6 W               |
| 040                         | NC025        | CF                 | Y           | 4.9              | 018 (012.0)       | N/A  | +2600               | -180                   | RNP APCH                    | 1.0 | 6 W               |
| 050                         | GELEX        | DF                 | N           | N/A              | N/A               | L    | +4200               | -180                   | RNP APCH                    | 1.0 | 6 W               |
| 060                         | BRANC        | TF                 | Y           | 23.5             | 189 (183.5)       | N/A  | +6000               | -210                   | RNP APCH                    | 1.0 | 6 W               |
| 070                         | BRANC        | HM                 | Y           | 4.0              | 017 (012.0)       | L    | +6000               | -210                   | RNP APCH                    | 1.0 | 6 W               |

21 ABRIL 2022

CATAMARCA (SANC)

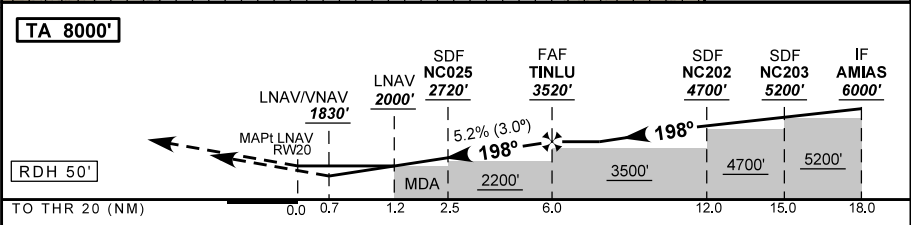
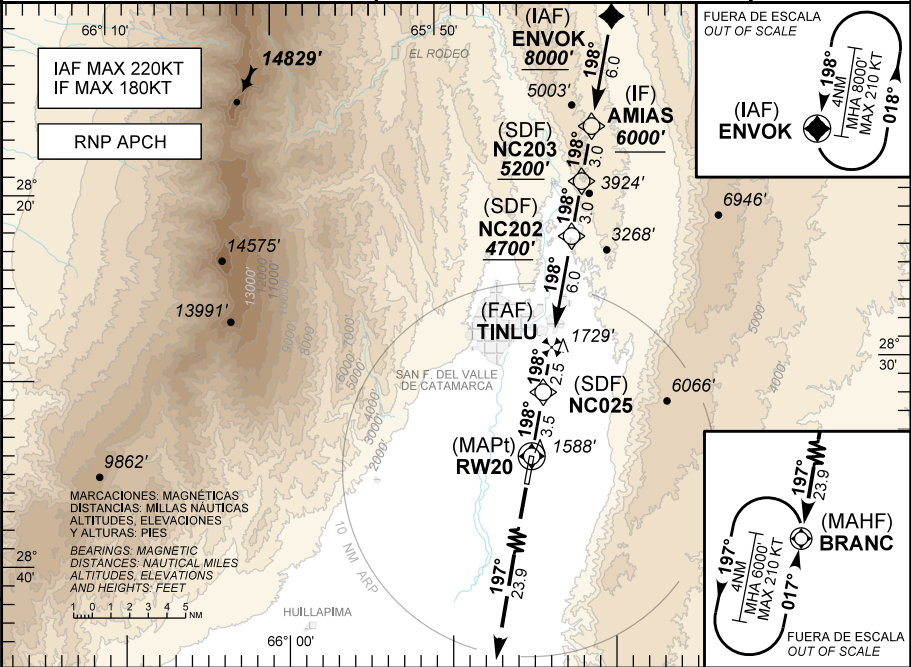
CATAMARCA

Carta de aproximación por instrumentos

Instrument approach chart

RNP RWY 20

| CATAMARCA CTL                                                                                                     |                | CATAMARCA APP     |                                                                             | CATAMARCA TWR |        | EMERG                             |
|-------------------------------------------------------------------------------------------------------------------|----------------|-------------------|-----------------------------------------------------------------------------|---------------|--------|-----------------------------------|
| 118.15                                                                                                            | 119.90         | 118.15            | 119.90                                                                      | 118.15        | 119.90 | 121.50                            |
| RNP                                                                                                               | FINAL APCH CRS | ALTITUD MNM TINLU | LNAV / VNAV DA(H)                                                           | AD Elev       | 1556'  |                                   |
|                                                                                                                   | 198°           | 3520' (1964')     | 1830' (274')                                                                | THR Elev      | 1556'  |                                   |
| Aproximación frustrada: ASC sobre curso 197° hasta BRANC alcanzando 6000 ft, HLDG y seguir instrucciones del ATC. |                |                   |                                                                             |               |        |                                   |
| Missed approach: Climb on course 197° to BRANC reaching 6000 ft, HLDG and proceed as directed by ATC.             |                |                   |                                                                             |               |        |                                   |
| NOTA: Para sistemas Baro VNAV no compensado, debajo de -10° C o superior a 50° C N.A.                             |                |                   | NOTE: For uncompensated Baro VNAV systems N.A. below -10° C or above 50° C. |               |        |                                   |
|                                                                                                                   |                |                   |                                                                             |               |        | 06° W (2018)<br><br>MSA 25 NM ARP |



| CAT               | DIRECTA RWY 20 / <i>Straight in RWY 20</i> |      |         |           |      |              |        | Circulación Visual<br><i>Circle to land</i> |        |        |       |
|-------------------|--------------------------------------------|------|---------|-----------|------|--------------|--------|---------------------------------------------|--------|--------|-------|
|                   | LNAV / VNAV                                |      |         | LNAV      |      |              |        |                                             |        |        |       |
|                   | DA 1830'                                   |      | DH 274' | MDA 2000' |      | MDH 444'     |        | CAT                                         | MDA    | MDH    | VIS   |
|                   | VIS                                        |      |         | VIS       |      |              |        |                                             |        |        |       |
| A                 | 1300 M                                     |      |         | 2300 M    |      |              | A      |                                             |        |        |       |
| B                 |                                            |      |         |           |      |              | B      |                                             |        |        |       |
| C                 |                                            |      |         |           |      |              | C      |                                             |        |        |       |
| D                 | N.A.                                       |      |         |           |      |              |        | D                                           |        |        |       |
| GS KT             | 90                                         | 110  | 130     | 150       | 160  | DIST to MAPt | 6.0    | 5.0                                         | 4.0    | 3.0    | 1.2   |
| FAF - MAPt 6.0 NM | 4:00                                       | 3:16 | 2:46    | 2:24      | 2:15 | ALT          | 3520   | 3200                                        | 2880   | 2560   | 2000  |
| FPM               | 480                                        | 580  | 690     | 800       | 850  | HGT          | (1964) | (1644)                                      | (1324) | (1004) | (444) |

21 ABRIL 2022

| CATAMARCA (SANC) RNP RWY 20 |                              |
|-----------------------------|------------------------------|
| FIX IDENT                   | COORDINATES                  |
| BRANC                       | 28°57'37.66"S 065°50'23.42"W |
| NC025                       | 28°31'25.41"S 065°44'04.34"W |
| TINLU                       | 28°28'57.63"S 065°43'28.75"W |
| NC202                       | 28°23'04.52"S 065°42'04.10"W |
| NC203                       | 28°20'07.98"S 065°41'21.84"W |
| AMIAS                       | 28°17'11.38"S 065°40'39.61"W |
| ENVOK                       | 28°11'18.23"S 065°39'15.27"W |
| RW20                        | 28°34'50.72"S 065°44'53.56"W |

21 ABRIL 2022

| CATAMARCA (SANC) RNP RWY 20 |           |                 |          |               |                |      |                  |                  |                          |     |                |
|-----------------------------|-----------|-----------------|----------|---------------|----------------|------|------------------|------------------|--------------------------|-----|----------------|
| 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                         | ENVOK     | IF              | N/A      | N/A           | N/A            | N/A  | +8000            | -220             | RNP APCH                 | 1.0 | 6 W            |
| 020                         | AMIAS     | TF              | N        | 6.0           | 198 (191.9)    | N/A  | +6000            | -180             | RNP APCH                 | 1.0 | 6 W            |
| 010                         | AMIAS     | IF              | N        | N/A           | N/A            | N/A  | +6000            | -180             | RNP APCH                 | 1.0 | 6 W            |
| 020                         | NC203     | TF              | N        | 3.0           | 198 (192.0)    | N/A  | +5200            | N/A              | RNP APCH                 | 1.0 | 6 W            |
| 030                         | NC202     | TF              | N        | 3.0           | 198 (192.0)    | N/A  | +4700            | N/A              | RNP APCH                 | 1.0 | 6 W            |
| 040                         | TINLU     | TF              | N        | 6.0           | 198 (192.0)    | N/A  | +3520            | N/A              | RNP APCH                 | 1.0 | 6 W            |
| 050                         | NC025     | TF              | N        | 2.5           | 198 (192.0)    | N/A  | +2720            | N/A              | RNP APCH                 | 0.3 | 6 W            |
| 060                         | RW20      | TF              | Y        | 3.5           | 198 (192.0)    | N/A  | @1606            | N/A              | RNP APCH                 | 0.3 | 6 W            |
| 070                         | BRANC     | CF              | Y        | 23.9          | 197 (192.0)    | N/A  | +6000            | N/A              | RNP APCH                 | 1.0 | 6 W            |
| 080                         | BRANC     | HM              | Y        | 4.0           | 017 (012.0)    | L    | +6000            | -210             | RNP APCH                 | 1.0 | 6 W            |

21 ABRIL 2022