AD 2. AERODROMES

SUDU AD 2.4-1 AERODROME LOCATION INDICATOR AND NAME

SUDU - DURAZNO/Santa Bernardina Intl of Alternative

SUDU 2.4-2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA

1	*ARP coordinates and site at AD*	332123S 0562946W DUR VOR/DME location
2	*Direction and distance from (city)*	3 KM E from Durazno city
3	*Elevation/Reference temperature*	93 M (305 FT) / 32°C
4	*Geoid undulation at AD ELEV PSN*	17 M
5	*MAG VAR/Annual change*	12° W (JAN 2020) / 0.15° increasing
6	*AD operator, address, telephone, telefax, e-mail address, AFS address, website address*	Fuerza Aérea Uruguaya Aeropuerto Intl de Alternativa Santa Bernardina Durazno Tel: 4362 2182, 4362 2449 Telefax: 4362 4927 e-mail: sudu@dinacia.gub.uy AFS: SUDUYTYX
7	*Types of traffic permitted (IFR/VFR)*	IFR/VFR
8	*Remarks*	Nil

SUDU AD 2.4-3 OPERATIONAL HOURS

1	*AD Operator*	☛MON - FRI 11:00 to 17:00 UTC. HOL and others: O/R previous coordination 24 HR in advance with Base OPS Centre (MON - FRI 11:00 to 17:00 UTC TEL (598)43622182)
2	*Customs and immigration*	O/R
3	*Health and sanitation*	First aids and ambulance
4	*AIS Briefing Office*	Nil
5	*ATS Reporting Office (ARO)*	As AD Operator
6	*MET Briefing Office*	As AD Operator
7	*ATS*	As AD Operator
8	*Fuelling*	As AD Operator
9	*Handling*	As AD Operator
10	*Security*	As AD Operator
11	*De-icing*	Nil
12	*Remarks*	Nil

SUDU AD 2.4-4 HANDLING SERVICES AND FACILITIES

1	*Cargo-handling facilities*	Nil
2	*Fuel/oil types*	100/130 y JET-A1
3	*Fuelling facilities/capacity*	100/130 18 000 L, JET-A1 30 000 L
4	*De-icing facilities*	Nil
5	*Hangar space for visiting aircraft*	Nil
6	*Repair facilities for visiting aircraft*	Nil
7	*Remarks*	Nil

SUDU AD 2.4-5 PASSENGER FACILITIES

1	*Hotels*	In the city
2	*Restaurants*	In the city
3	*Transportation*	Taxis O/R; DLY bus service from 09:00 to 21:00 UTC
4	*Medical facilities*	First aids and ambulance
5	*Bank and Post Office*	Nil
6	*Tourist Office*	Nil
7	*Remarks*	Nil

SUDU AD 2.4-6 RESCUE AND FIRE FIGHTING SERVICES

1	*AD category for fire fighting*	☛CAT 06 from 10:00 to 22:00 UTC; other O/R previous coordination
2	*Rescue equipment*	Tools and approach equipment
3	*Capability for removal of disabled aircraft*	Nil
4	*Remarks*	In case of major accident, FAU aircraft support immediate response, FAU rescue personnel, firefighters and doctors specializing in severe polytrauma.

SUDU AD 2.4-7 SEASONAL AVAILABILITY - CLEARING

1	*Types of clearing equipment*	Nil

SUDU AD 2.4-8 APRONS, TAXIWAYS AND CHECK LOCATIONS/POSITIONS DATA

1	*Apron surface and strength*	Surface: asphalt concrete - concrete Strength: 21/F/B/W/U
2	*Taxiway width, surface and strength*	Width: 23 M Surface: asphalt concrete Strength: ☛Taxiways “A”, “B” and “C” limited to 20 tons
3	*Altimeter checkpoint location and elevation*	Superior apron (332129S/0563030W) 82 M
4	*VOR checkpoints*	Nil
5	*INS checkpoints*	Nil
6	*Remarks*	Nil

SUDU AD 2.4-9 SURFACE MOVEMENT GUIDANCE AND CONTROL SYSTEM AND MARKINGS

1	*Use of aircraft stand ID signs, TWY guide lines and visual docking/parking guidance system of aircraft stands*	Nil
2	*RWY and TWY markings and LGT*	RWY: Designation, centre line, THR and runway side stripe marking, 10/28 holding position (65 M of 03/21 centre line) TWY: Designation of centre line
3	*Stop bars*	Nil
4	*Remarks*	Nil

SUDU AD 2.4-10 AERODROME OBSTACLES

In approach/TKOF areas			*In circling area and at AD*		*Remarks*
1			2		3
RWY/Area affected	*Obstacle type Elevation Markings/LGT*	*Coordinates*	*Obstacle type Elevation Markings/LGT*	*Coordinates*	Nil
a	b	c	a	b	
21/APCH	Trees 30 M	No data AVBL	Trees 20 M	No data AVBL	

SUDU AD 2.4-11 METEOROLOGICAL INFORMATION PROVIDED

1	*Associated MET Office*	DURAZNO
2	*Hours of service* *MET Office outside hours*	H 24
3	*Office responsible for TAF preparation* *Periods of validity*	Surveillance MET Office CARRASCO: O/R H 24
4	☛*Trend forecast* *Interval of issuance*	TREND O/R
5	*Briefing/consultation provided*	Personal inquiries
6	*Flight documentation* *Language(s) used*	Nil
7	*Charts and other information available* ☛*for briefing or consultation*	S, U, P, T
8	*Supplementary equipment available for providing information*	Telefax
9	*ATS units provided with information*	DURAZNO TWR, OPS
10	*Additional information (limitation of service, etc.)*	Nil

SUDU AD 2.4-12 RUNWAY PHYSICAL CHARACTERISTICS

Designations RWY NR	*TRUE BRG*	*Dimensions of RWY (M)*	*Strength (PCN) and surface of RWY and SWY*	*THR coordinates. RWY end coordinates. THR geoid undulation*	*THR elevation and highest elevation of TDZ of precision APP RWY*
1	2	3	4	5	6
03	☛023.28°	2 279 x 45	21/F/B/W/T Asphalt concrete and concrete	332209.82S 0563016.63W 332209.82S 0563016.63W GUND 16.6 M	THR 83 M/272 FT
21	☛203.28°	2 279 x 45	21/F/B/W/T Asphalt concrete and concrete	332101.81S 0562941.76W 332101.81S 0562941.76W GUND 16.6 M	THR 93 M/305 FT
10	☛086.62º	1 452 x 30	Asphalt concrete	332134.45S 0563039.00W 332134.45S 0563039.00W GUND 16.6 M	THR 84 M/276 FT
28	☛266.62º	1 452 x 30	Asphalt concrete	332131.67S 0562942.92W 332131.67S 0562942.92W GUND 16.6 M	THR 90 M/295 FT

Slope of RWY-SWY	*SWY dimensions (M)*	*CWY dimensions (M)*	*Strip dimensions (M)*	*OFZ*	*Remarks*
7	8	9	10	11	12
+0.46% (2279 M)	Nil	Nil	☛2 399 x 280	Nil	Nil
-0.46% (2279M)	Nil	Nil	☛2 399 x 280	Nil	Nil
+0.27%/0%/+0.56%/ +1.1%/+0.8%/+0.5%/0% (100 M) (250 M) (750 M) (100 M) (50 M) (100 M) (100 M)	Nil	Nil	☛1 572 x 280	Nil	Nil
-0%/-0.5%/-0.8%/-1.1%/ -0.56%/0%/+0.27% (100 M) (100 M) (50 M) (100 M) (750 M) (250 M) (100 M)	Nil	Nil	☛1 572 x 280	Nil	Nil

SUDU AD 2.4-13 DECLARED DISTANCES

RWY Designator	*TORA (M)*	*TODA (M)*	*ASDA (M)*	*LDA (M)*	*Remarks*
1	2	3	4	5	6
03	2 279	2 279	2 279	2 279	Nil
21	2 279	2 279	2 279	2 279	Nil
10	1 452	1 452	1 452	1 452	Nil
28	1 452	1 452	1 452	1 452	Nil

SUDU AD 2.4-14 APPROACH AND RUNWAY LIGHTING

RWY Desig-nator	*APCH LGT type LEN INTST*	*THR LGT colour WBAR*	*VASIS (MEHT) PAPI*	*TDZ, LGT LEN*	*RWY Centre Line LGT Length, spacing, colour, INTST*	*RWY edge LGT LEN, spacing colour INTST*	*RWY End LGT colour WBAR*	*SWY LGT LEN (M) colour*	*Remarks*
1	2	3	4	5	6	7	8	9	10
03	SALS 420 M LIH	Green Red	☛Nil	Nil	Nil	2279 M, 60 M White Amber	- Amber	Nil	Nil
21	MALSR CAT I 720 M LIH	Green Red	☛Nil	Nil	Nil	2279 M, 60 M White Amber	- Amber	Nil	Nil
10	Nil	Green Red	☛Nil	Nil	Nil	1452 M, 60 M White Amber	- Amber	Nil	Nil
28	Nil	Green Red	Nil	Nil	Nil	1452 M, 60 M White Amber	- Amber	Nil	Nil

SUDU AD 2.4-15 OTHER LIGHTING, SECONDARY POWER SUPPLY

1	*ABN/IBN location, characteristics and hours of operation*	ABN: Nil / IBN: Nil
2	*LDI location and LGT* *Anemometer location and LGT*	WDI: 294 M SE THR 10 lighted Anemometer: 400 M of THR RWY 21
3	*TWY edge and centre line lighting*	Edge: all the TWY Centre: Nil
4	*Secondary power supply/switch-over time*	Secondary power supply: 200 KW generator. Switch-over time: 10 SEC
5	*Remarks*	Nil

SUDU AD 2.4-16 HELICOPTER LANDING AREA

1	*Coordinates TLOF or THR of FATO*	Nil
2	*TLOF and/or FATO elevation M/FT*	Nil
3	*TLOF and FATO area dimensions, surface, strength, marking*	Nil
4	*True and MAG BRG FATO*	Nil
5	*Declared distance available*	Nil
6	*APP and FATO lighting*	Nil
7	*Remarks*	Nil

SUDU AD 2.4-17 ATS AIRSPACE

1	*Designation and lateral limits*	DURAZNO TMA Circle, radius 30 NM centred at 332122.5S 0562945.8W DURAZNO CTR Arc, radius 5 NM centred at 332122.5S 0562945.8W (ARP)
2	*Vertical limits*	TMA: GND up to FL 195 CTR: GND up to 900 M
3	*Airspace classification*	C
4	*ATS unit call sign* *Language(s)*	Durazno Tower ☛Spanish, English (O/R)
5	*Transition altitude*	900 M
6	*Remarks*	MIL AD and INTL ALTN

SUDU AD 2.4-18 ATS COMMUNICATION FACILITIES

Service designation	*Call sign*	*Frequency*	*Hours of operation*	*Remarks*
1	2	3	4	5
APP		120.4 MHZ	H24	Nil
TWR	Durazno Tower	120.4 MHZ 126.2 MHZ	H24	Nil

SUDU AD 2.4-19 RADIO NAVIGATION AND LANDING AIDS

Type of aid, MAG VAR, Type of supported OP (for VOR/ILS/MLS, give declination)	*ID*	*Frequency*	*Hours of operation*	*Position of transmitting antenna coordinates*	*Elevation of DME transmitting antenna*	*Remarks*
1	2	3	4	5	6	7
VOR/DME	DUR CH 122 X	117.5 MHZ	H24	332122.5S 0562945.8W	90 M/295 FT	Nil
LLZ RWY 21 ILS CAT I	IDUR	109.9 MHZ	H24	332218.6S 0563021.1W	Nil	Nil
GS 21			H24	332113.3S 0562942.5W	Nil	Nil
DME 21			H24	332113.4S 0562942.2W	Nil	Nil
☛						

SUDU AD 2.4-22 FLIGHT PROCEDURES

General

Unless special permission has been obtained prior coordination between DUR TMA and MONTEVIDEO ACC, IFR / VFR flights should communicate with DUR TMA, 120.4 MHZ frequency 10 NM before entering the Terminal Area.

Procedures for IFR flights within the DURAZNO TMA

The DUR APP is responsible for:

a) the control of IFR flights arriving and have been transferred by the MONTEVIDEO ACC with FL 195 or less;
b) control of departing IFR flights, until they are transferred to MONTEVIDEO ACC when the aircraft reaches the point of notification for your route on the edge of both airspaces, or crossing FL 195 on the rise.
c) control of IFR flights that cross its airspace below FL 195 and have been transferred by the MONTEVIDEO ACC until they are transferred back to MONTEVIDEO ACC.

☛**Reduction of the minimum IFR takeoffs**

☛The minimum visibility required for takeoff is: 1 600 M.
☛The ceiling shall be equal to or greater than the maximum established in the Instrument Approach Charts.

Radar procedures within the DURAZNO TMA

Radar separation shall not apply in the DUR TMA, unless otherwise coordinated.

Communications Failure

In case of communication failure the pilot in command shall act according to the communication failure procedures (ICAO Annex 2).

Procedures for VFR flights within the DURAZNO TMA.

It requires that aircrafts flying under visual flight rules, which are not in contact with the Montevideo Area Control Centre and will enter the terminal area or crossing Durazno Terminal, communicate with Durazno APP 120.4 MHZ frequency, at least 30 nautical miles before the entrance to that terminal.

Routing and Information of VFR flights

The Montevideo ACC shall inform Durazno APP, VFR flights which have knowledge with destination SUDU, entering the airspace under its jurisdiction. Durazno APP shall inform MONTEVIDEO ACC of VFR flights which has knowledge with destination the airports within the jurisdiction of the airspace adjacent control.

Eventually, the instructions will be coordinated traffic conditions imposed and the communication transfer point.

SSR Code Assignment
Along with the approval of VFR flight plan or IFR, Montevideo ACC shall inform the Durazno APP the SSR code assigned to each aircraft.

Routing Flight Plans

Flight plans will be routed through the AFTN or alternatively by fax.

Minimum vertical separation in the Traffic Circuit of Durazno.

☛Nil.

SUDU AD 2.4-24 CHARTS RELATED TO AN AERODROME

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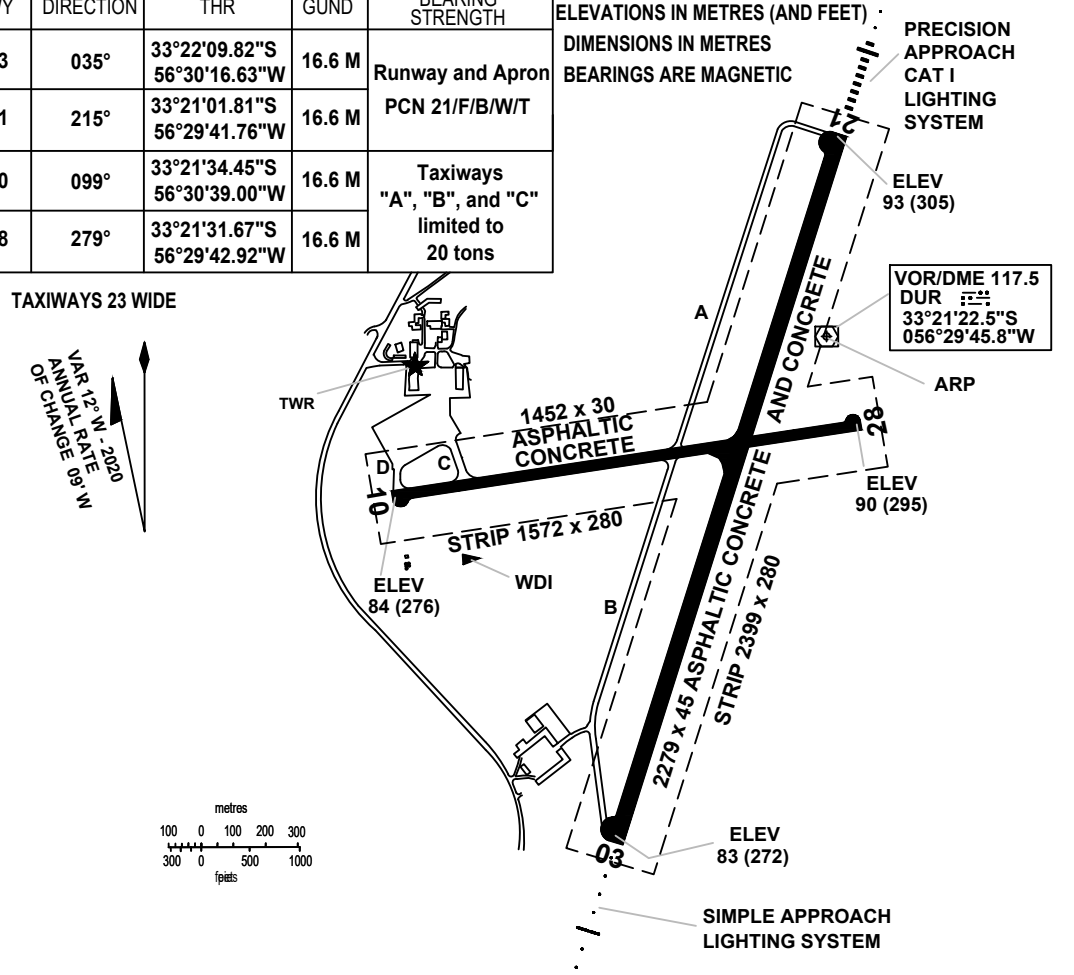
AERODROME/HELIPORT CHART - ICAO | 33°21'23"S 056°29'46"W | ELEV 93 (305) | TWR 126.2 APRON 000.0 | DURAZNO/Intl Altn Santa Bernardina

RWY	DIRECTION	THR	GUND	BEARING STRENGTH
03	035°	33°22'09.82"S 56°30'16.63"W	16.6 M	Runway and Apron PCN 21/F/B/W/T
21	215°	33°21'01.81"S 56°29'41.76"W	16.6 M	
10	099°	33°21'34.45"S 56°30'39.00"W	16.6 M	Taxiways "A", "B", and "C" limited to 20 tons
28	279°	33°21'31.67"S 56°29'42.92"W	16.6 M	



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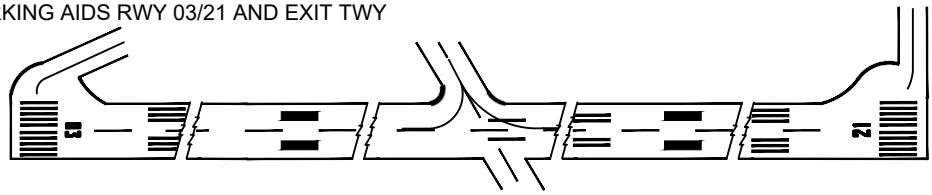
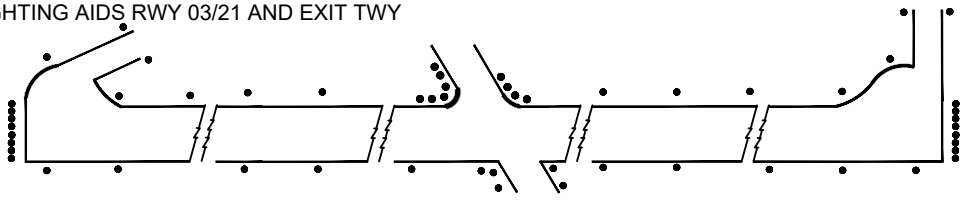
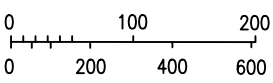
MARKING AIDS RWY 03/21 AND EXIT TWY



LIGHTING AIDS RWY 03/21 AND EXIT TWY





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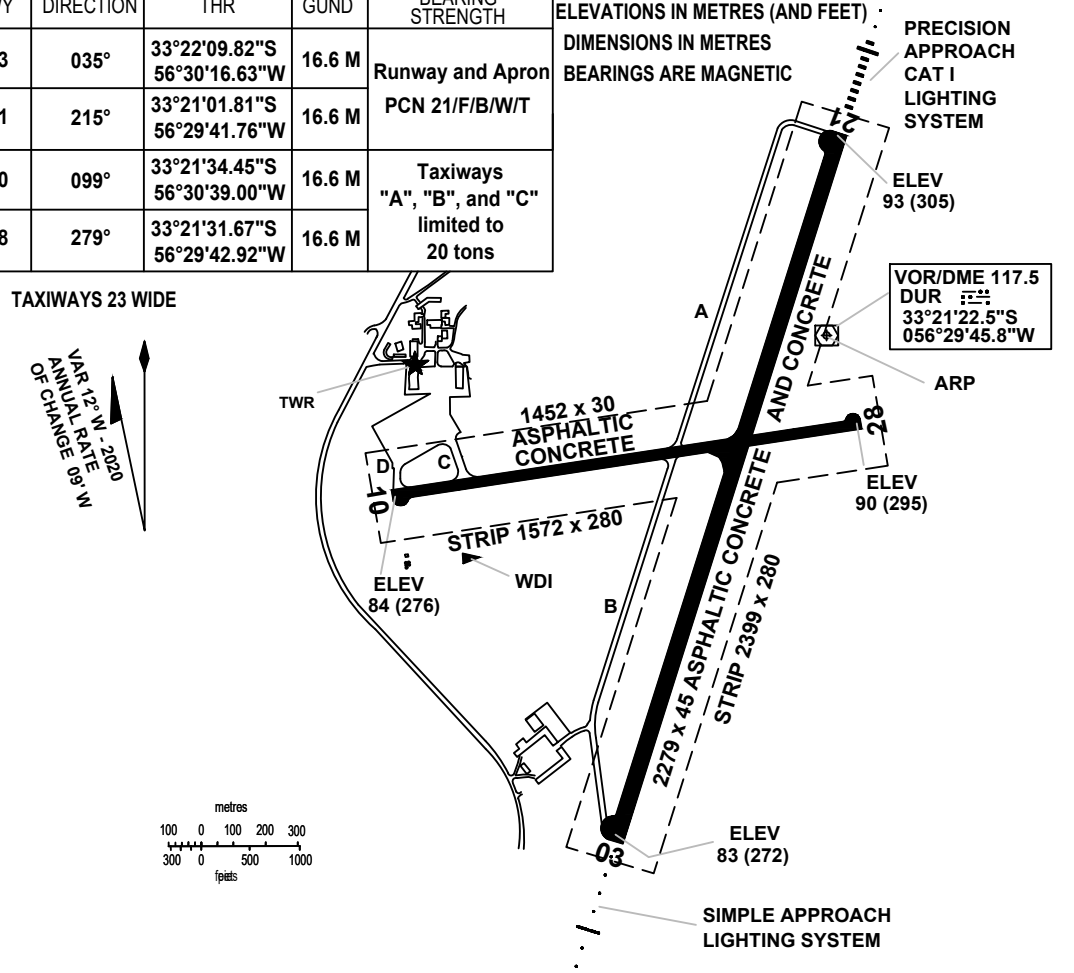
AERODROME/HELIPORT CHART - ICAO

33°21'23"S 056°29'46"W **ELEV 93 (305)**

TWR 126.2
APRON 000.0

DURAZNO/Intl Altn
Santa Bernardina

RWY	DIRECTION	THR	GUND	BEARING STRENGTH
03	035°	33°22'09.82"S 56°30'16.63"W	16.6 M	Runway and Apron PCN 21/F/B/W/T
21	215°	33°21'01.81"S 56°29'41.76"W	16.6 M	
10	099°	33°21'34.45"S 56°30'39.00"W	16.6 M	Taxiways "A", "B", and "C" limited to 20 tons
28	279°	33°21'31.67"S 56°29'42.92"W	16.6 M	



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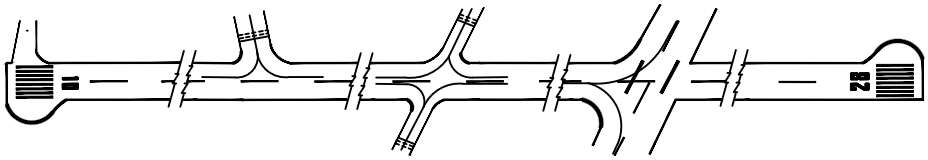
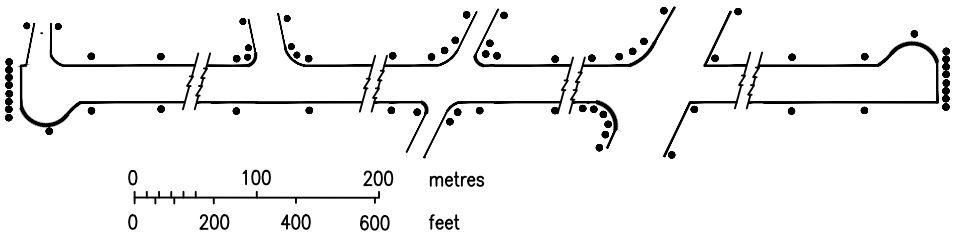
MARKING AIDS RWY 10/28 AND EXIT TWY



LIGHTING AIDS RWY 10/28 AND EXIT TWY



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INSTRUMENT APPROACH CHART - ICAO

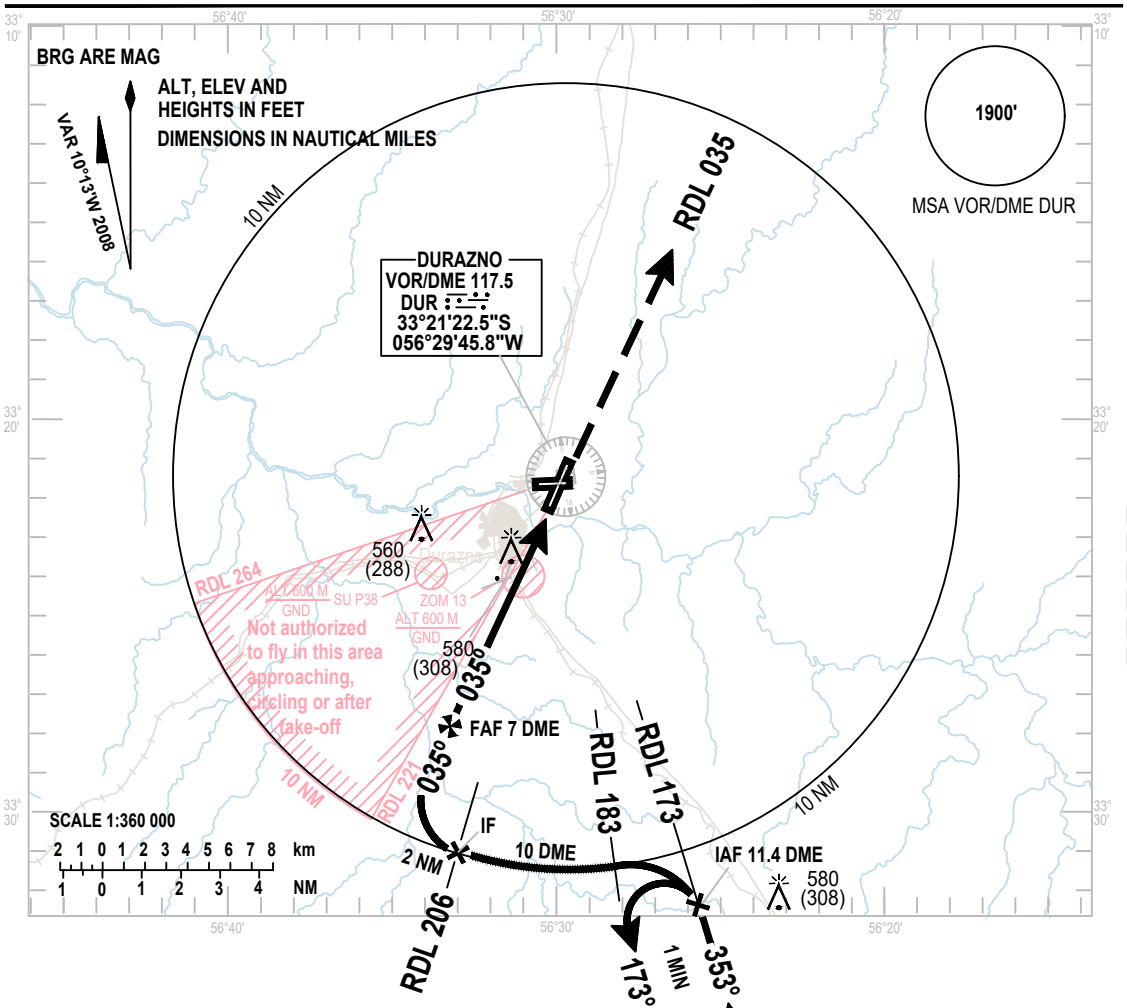
AERODROME ELEV **305 FT**

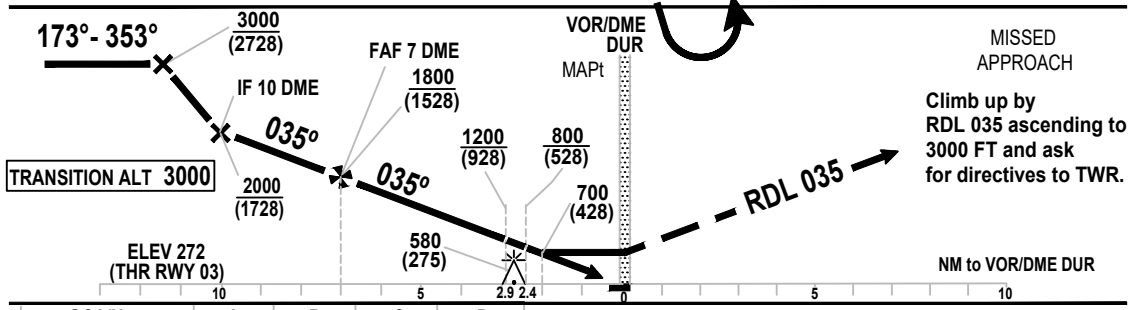
HEIGHTS RELATED TO THR RWY 03 - ELEV 272 FT

APP 120.4
TWR 126.2

DURAZNO/Intl Altn Santa Bernardina

DME VOR RWY 03





OCA/H		A	B	C	D
Straight-in Approach	DME VOR	700 (428)			
	VIS	1500 M		3000 M	
Circling		880 (575)	980 (675)		1080 (775)
VIS		1500 m	3500 m		4500 m

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INSTRUMENT APPROACH CHART - ICAO

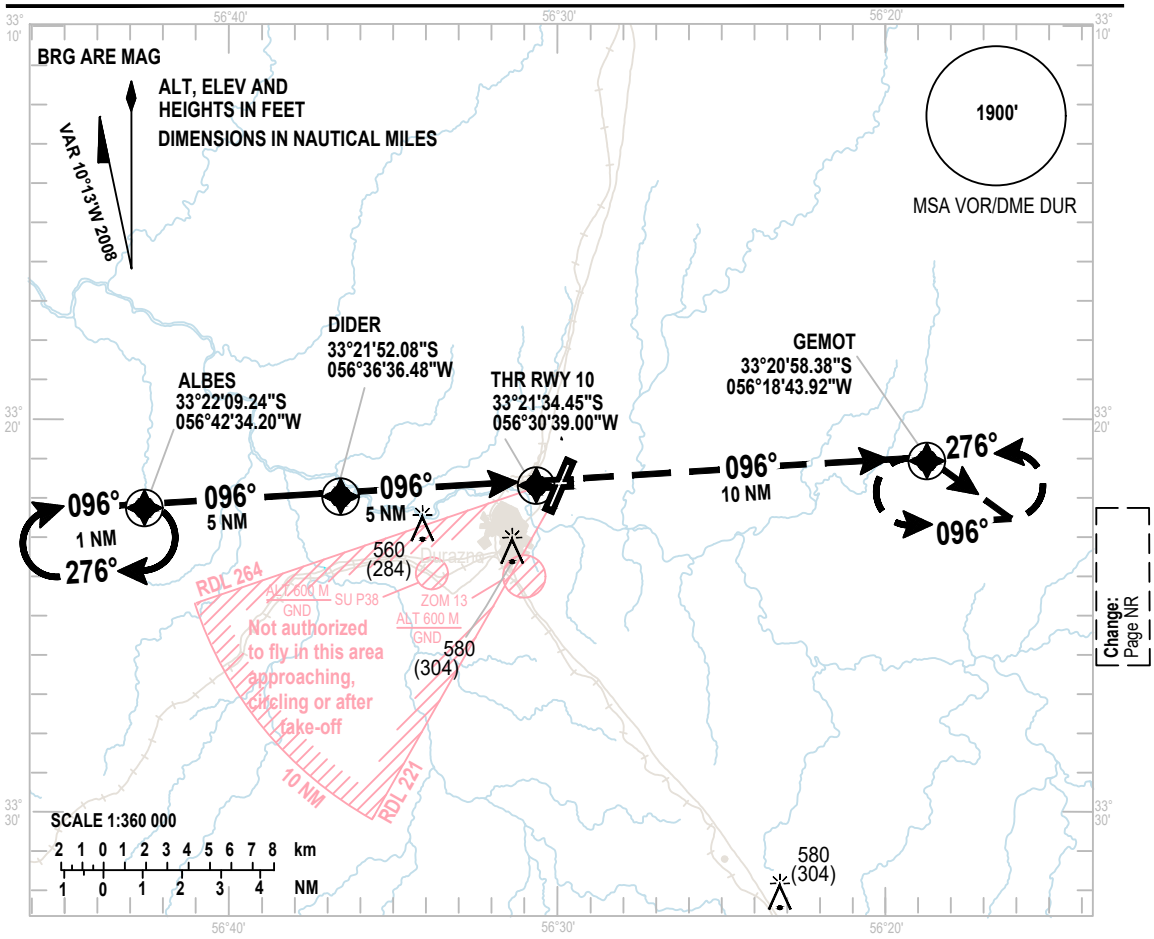
AERODROME ELEV **305 FT**

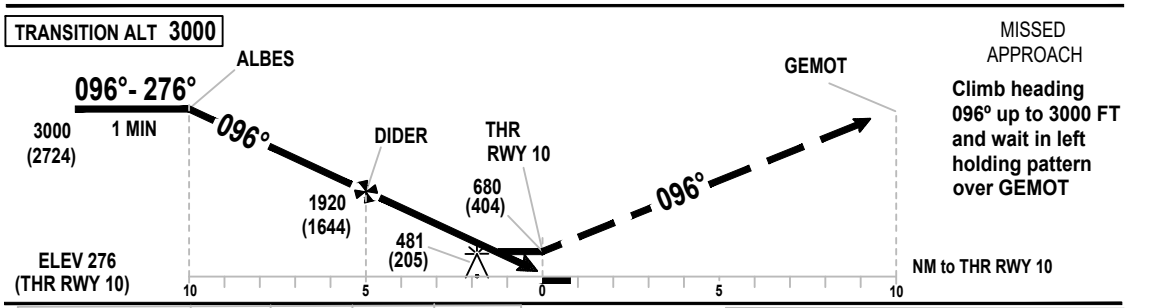
HEIGHTS RELATED TO
THR RWY 09 - ELEV 276 FT

APP 120.4
TWR 126.2

DURAZNO/Intl Altn Santa Bernardina

RNAV (GNSS) RWY 10





OCA/H		A	B	C	D
Straight-in Approach	GPS	680(404)			
	VIS	1600 M		2000 M	
VIS-ALS INOP in M					
Circling		880 (575)	980 (675)		1080 (775)
VIS		1500 m	1600 m	3500 m	4500 m

	KT	80	100	120	140	160	180	200
WFAF - RWY 09 (5 NM)	Min : Seg	3:45	3:00	2:30	2:08	1:48	1:36	1:30
Velocidad vertical de descenso 5,2%	Pies/ Min	400	500	600	700	800	900	1000

NM RWY 09	1.3	2	3	4	5
ALTITUD	680	970	1290	1605	1920
ALTURA	404	695	1014	1330	1545

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INSTRUMENT APPROACH CHART - ICAO

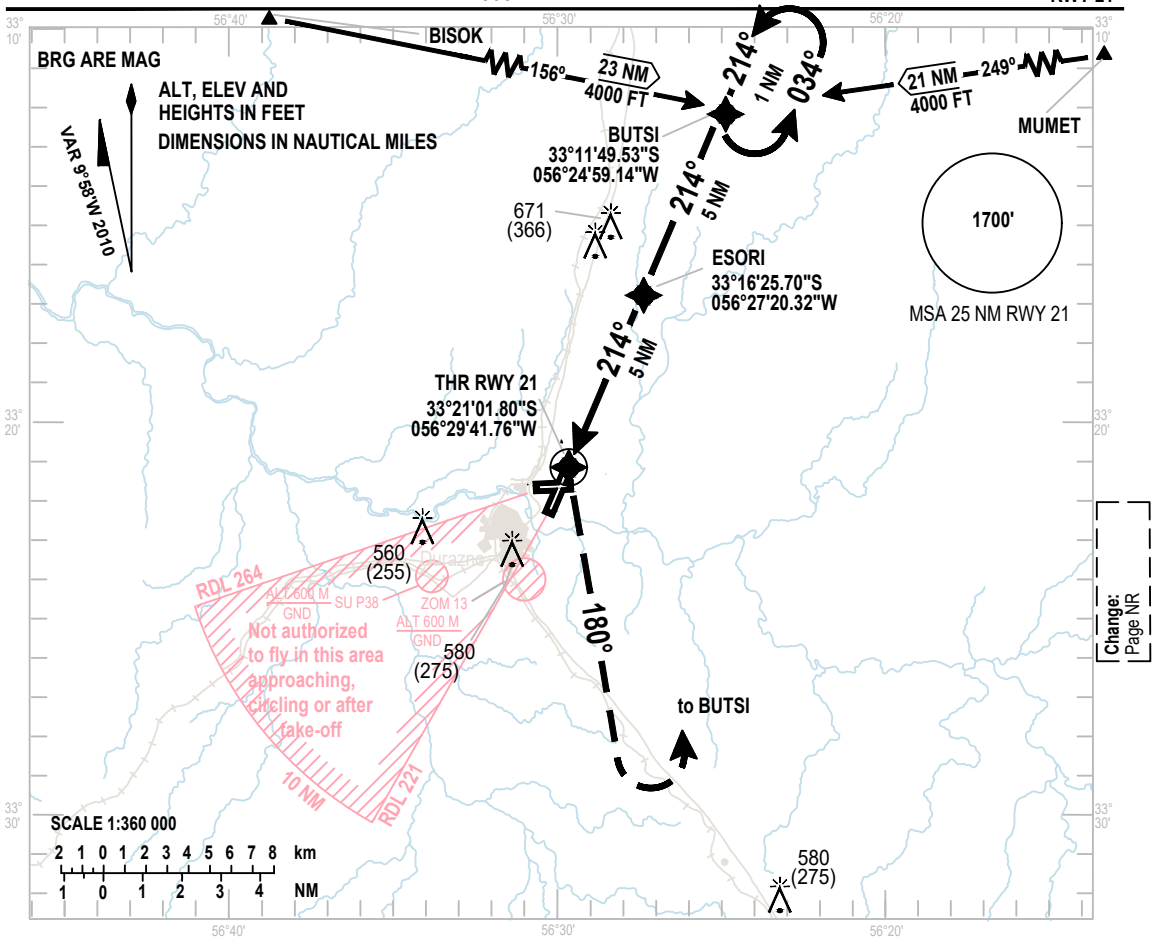
AERODROME ELEV **305 FT**

HEIGHTS RELATED TO
THR RWY 21 - ELEV 305 FT

APP 120.4
TWR 126.2

DURAZNO/Intl Altn Santa Bernardina

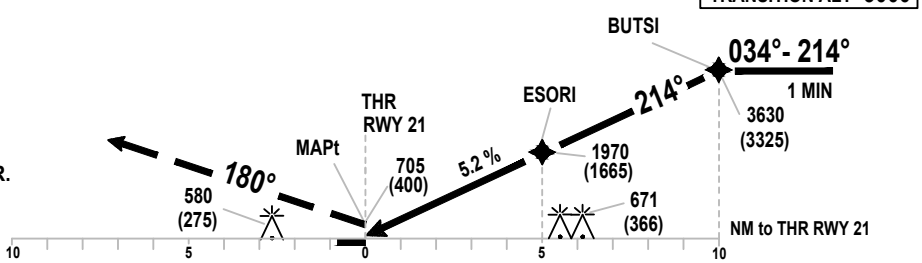
RNAV (GNSS) RWY 21



MISSED APPROACH

Climb heading 180° up to 2000 FT. Turn left ascending up to 3000 FT direct to BUTSI and ask for directives to TWR.

TRANSITION ALT 3000



OCA/H	A	B	C	D	E
Straight-in Approach GPS	705 (400)				
Straight-in Approach VIS	1200 M - 1500 M ALS INOP				
VIS-ALS INOP in M	1200 M - 1500 M			1500 M	
Circling	880 (575)		980 (675)		1080 (775)
VIS	1500 m			3500 m	4500 m

	KT	80	100	120	140	160	180	200
ESORI - Mapt (5 NM)	Min : Sec	3:52	3:00	2:30	2:10	1:50	1:42	1:25
Rate of descent 5,2%	Feet/ Min	430	530	640	750	850	950	1060

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INSTRUMENT
APPROACH
CHART - ICAO

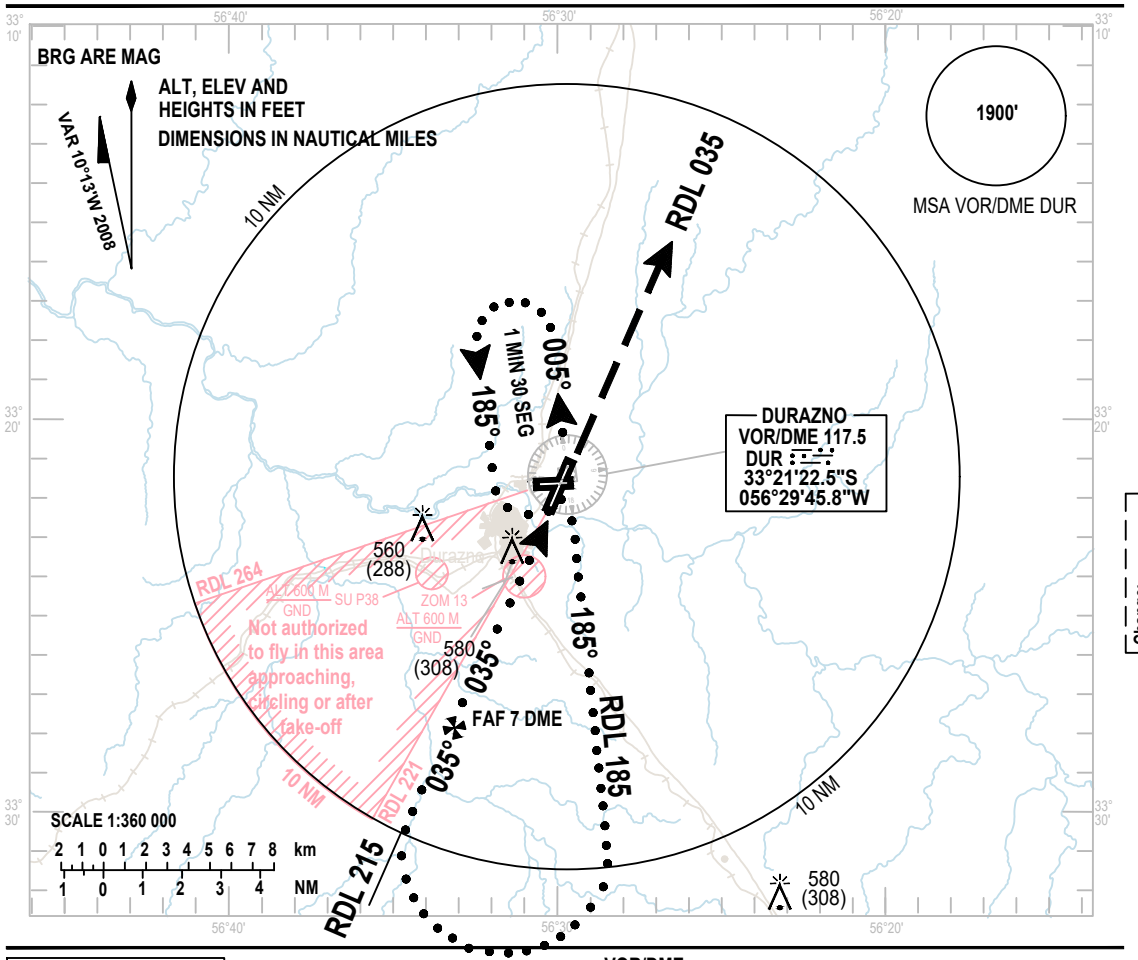
AERODROME ELEV **305 FT**

HEIGHTS RELATED TO
THR RWY 03 - ELEV 272 FT

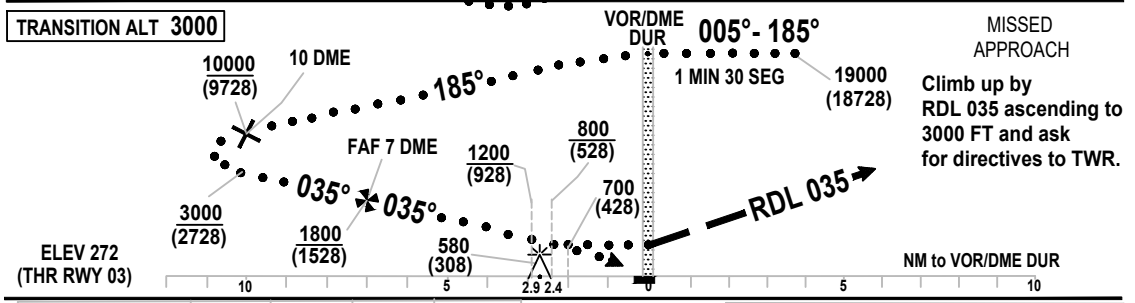
APP 120.4
TWR 126.2

DURAZNO/Intl Altn
Santa Bernardina

HI VOR/DME
RWY 03



TRANSITION ALT 3000



MISSED APPROACH

Climb up by RDL 035 ascending to 3000 FT and ask for directives to TWR.

		C	D
OCA/H		700 (428)	
Straight-in Approach	VOR		
	VIS	3000 M	
Circling		980 (675)	1080 (775)
VIS		3500 m	4500 m

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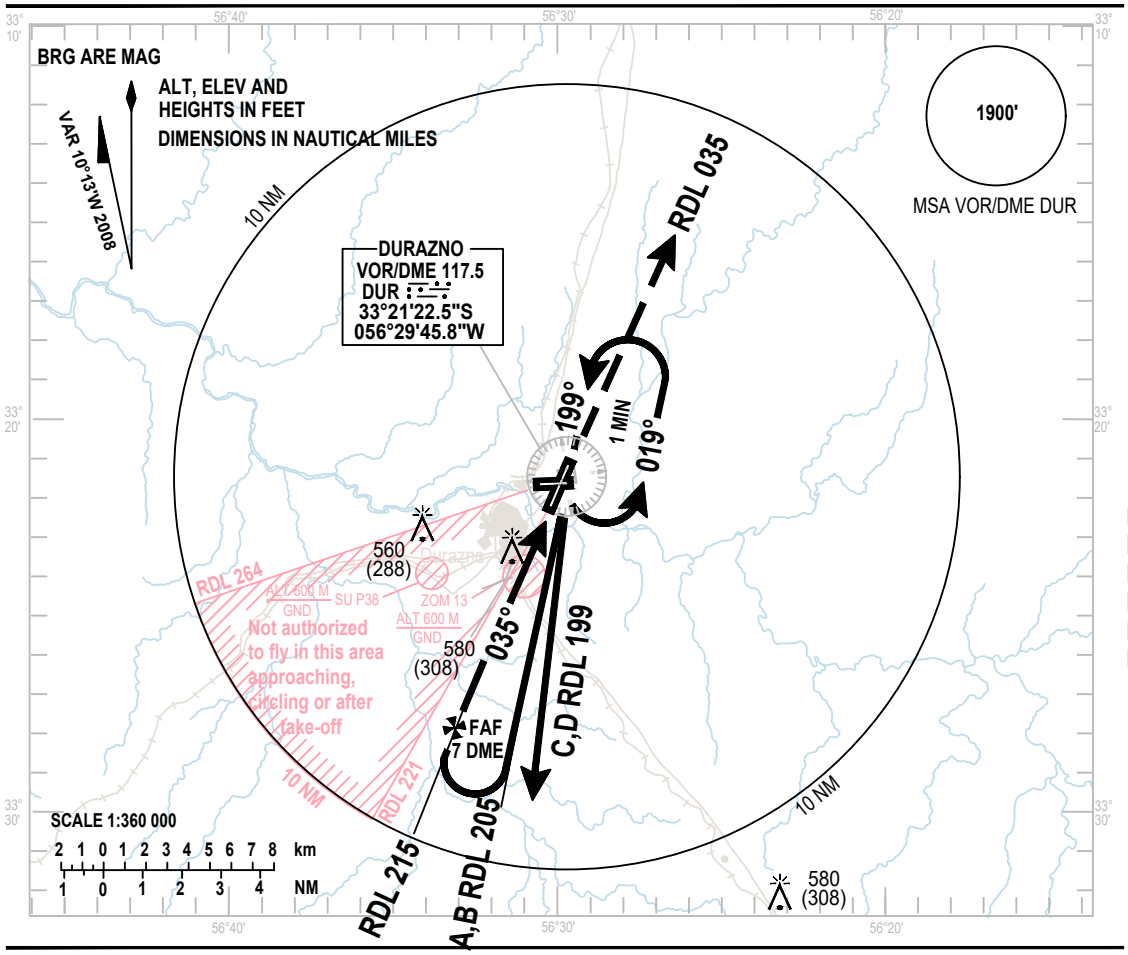
INSTRUMENT
APPROACH
CHART - ICAO

AERODROME ELEV **305 FT**

HEIGHTS RELATED TO
THR RWY 03 - ELEV 272 FT

APP 120.4
TWR 126.2

DURAZNO/Intl Altn
Santa Bernardina
VOR/DME
RWY 03



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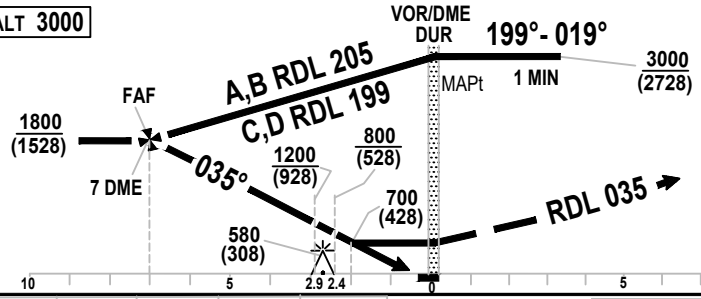
TRANSITION ALT 3000



MISSED
APPROACH

Climb up by RDL 035 ascending to 3000 FT and ask for directives to TWR.

OCA/H		A	B	C	D
Straight-in Approach	VOR DME	700 (428)			
	VIS	1500 M		3000 M	
Circling		880 (575)	980 (675)		1080 (775)
VIS		1500 m	3500 m		4500 m

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