

INSTRUMENT APPROACH
CHART-ICAO

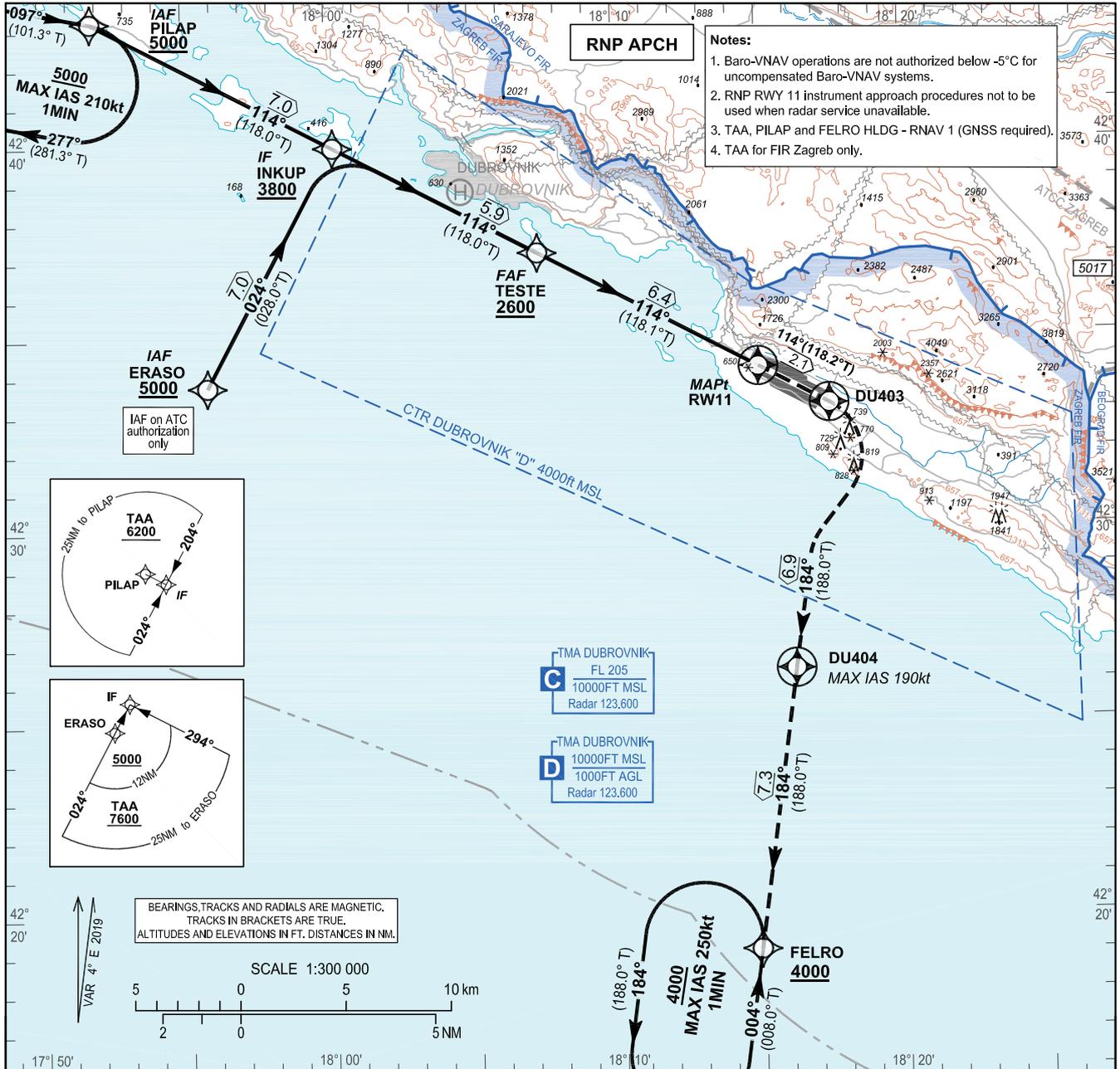
DUBROVNIK / Rudjer Boskovic (LDDU)

AD ELEV 527
HEIGHTS RELATED
TO THR RWY 11 - ELEV 519

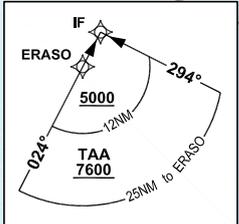
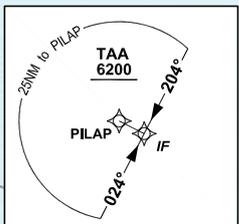
SBAS
CH: 66752
E11A

DUBROVNIK ATIS 118.425
DUBROVNIK RADAR 123.600
DUBROVNIK TOWER 129.500
DUBROVNIK DELIVERY 125.400

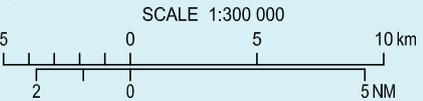
RNP RWY 11



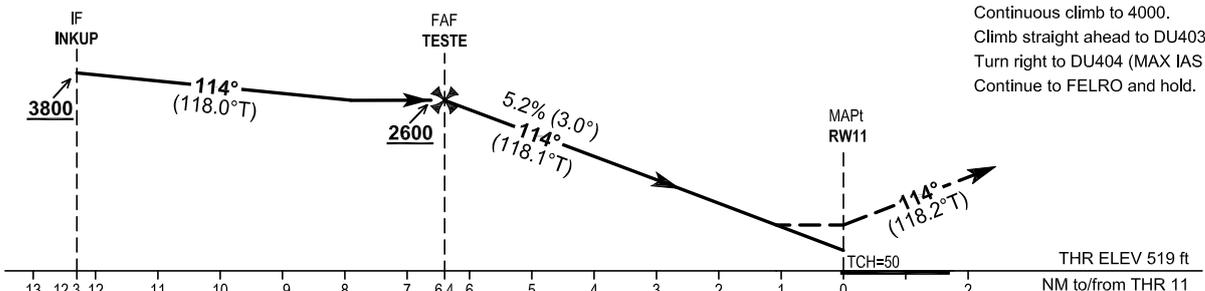
- Notes:**
1. Baro-VNAV operations are not authorized below -5°C for uncompensated Baro-VNAV systems.
 2. RNP RWY 11 instrument approach procedures not to be used when radar service unavailable.
 3. TAA, PILAP and FELRO HLDG - RNAV 1 (GNSS required).
 4. TAA for FIR Zagreb only.



BEARINGS, TRACKS AND RADIALS ARE MAGNETIC.
TRACKS IN BRACKETS ARE TRUE.
ALTITUDES AND ELEVATIONS IN FT. DISTANCES IN NM.



TRANSITION ALTITUDE 10 000



MISSED APPROACH:
Continuous climb to 4000.
Climb straight ahead to DU403.
Turn right to DU404 (MAX IAS 190 kt).
Continue to FELRO and hold.

OCA (H)		A	B	C	D
Straight-in approach	LPV 2.5 %	1598 (1079)	1608 (1089)	1618 (1099)	1628 (1109)
	LPV 4.0 %	782 (263)	792 (273)	801 (282)	811 (292)
	LNAV / VNAV	1460 (941)	1560 (1041)	1720 (1201)	1745 (1226)
	LNAV 2.5 %	1730 (1211)	1900 (1381)	2130 (1611)	2150 (1631)
	LNAV 4.0 %	1730 (1211)	1730 (1211)	1830 (1311)	1860 (1341)

DIST to MAPt (RW11)	NM	6	5	4	3	2	1
Altitude	ft	2490	2170	1850	1530	1210	890

Timing not authorized for defining the MAPt

GS	kt	70	90	100	120	140	160	180
Rate of descent (5.24%)	ft/min	372	478	531	637	743	850	956

CHANGE: TMA classification vertical limits: Editorial.

RNP RWY 11

Input data

Operation Type	0
SBAS Provider	1 (EGNOS)
Airport Identifier	LDDU
Runway	11
Runway Letter	0 (None)
Approach Performance Designator	0
Route Indicator	
Reference Path Data Selector	0
Reference Path Identifier	E11A
LTP/FTP Latitude	423409.2080N
LTP/FTP Longitude	0181454.2390E
LTP/FTP Ellipsoidal Height (metres)	198.6
FPAP Latitude	423320.9450N
Delta FPAP Latitude (seconds)	-48.2630
FPAP Longitude	0181655.8935E
Delta FPAP Longitude (seconds)	121.6545
Threshold Crossing Height	50.0
TCH Units Selector	0 (feet)
Glidepath Angle (degrees)	3.00
Course Width (metres)	105.00
Length Offset (metres)	0
HAL (metres)	40.0
VAL (metres)	50.0

Output data

Data Block	10 15 04 04 0C 0B 00 00 01 31 31 05 70 CB 44 12 3E D4 D4 07 C2 1B F2 86 FE 6D B6 03 F4 01 2C 01 64 00 C8 FA 12 6E A9 26
Calculated CRC Value	126EA926

Required Additional Data

ICAO Code	LD
LTP/FTP Orthometric Height (metres)	158.3

CHANGE: TMA classification vertical limits; Editorial.

LDDU RNP RWY 11

Proposed tabular description for navigation database coding - APPROACH TRANSITION

Serial number	Fix	Path descriptor	Waypoint name	Flyover	Course °M (°T)	Magnetic Variation	Distance (NM)	Turn direction	Altitude (ft)	Speed (kt)	VPA/TCH (°/ft)	Remarks	NAV SPEC
010	IAF	IF	PILAP	-	-	4°E	-	-	+5000	-	-	-	RNP APCH
020	IF	TF	INKUP	-	114° (118.0° T)	4°E	7.0	-	+3800	-	-	-	
010	IAF	IF	ERASO	-	-	4°E	-	-	+5000	-	-	IAF on ATC authorization only	
020	IF	TF	INKUP	-	024° (028.0° T)	4°E	7.0	-	+3800	-	-	-	

Proposed tabular description for navigation database coding - FINAL TRANSITION

Serial number	Fix	Path descriptor	Waypoint name	Flyover	Course °M (°T)	Magnetic Variation	Distance (NM)	Turn direction	Altitude (ft)	Speed (kt)	VPA/TCH (°/ft)	Remarks	NAV SPEC
010	IF	IF	INKUP	-	-	4°E	-	-	+3800	-	-	-	RNP APCH
020	FAF	TF	TESTE	-	114° (118.0°T)	4°E	5.9	-	+2600	-	-	-	
030	MAPt	TF	RW11	Y	114° (118.1°T)	4°E	6.4	-	-	-	3.0 / 50	-	
040	MATF	TF	DU403	Y	114° (118.2°T)	4°E	2.1	-	-	-	-	-	
050	-	TF	DU404	Y	184° (188.0°T)	4°E	6.9	R	-	-190	-	-	
060	MAHF	TF	FELRO	-	184° (188.0°T)	4°E	7.3	-	@4000	-	-	-	
070	MAHF	HM	FELRO	-	004° (008.0°T)	4°E	1 MIN	L	@4000	-250	-	-	

RNAV HOLDING tabular description

Waypoint name	Path descriptor	Inbound course °M (°T)	Leg time/ distance (NM)	Turn direction	Minimum altitude (ft)	Maximum altitude (ft)	Speed limit MAX IAS (kt)	Magnetic variation	Remarks	NAV SPEC
PILAP	HM	097° (101.3°T)	1 MIN / -	R	5000	-	210	4°E	-	RNAV 1
FELRO	HM	004° (008.0°T)	1 MIN / -	L	4000	-	250	4°E	-	RNAV 1

Waypoint coordinates

Waypoint name	WGS-84 latitude	WGS-84 longitude
ERASO	423345.7N	0175547.1E
FELRO	421903.7N	0181440.4E
INKUP	423956.6N	0180014.4E
PILAP	424313.8N	0175151.5E
TESTE	423709.9N	0180717.6E
RW11	423409.21N	0181454.24E
DU403	423311.0N	0181721.0E
DU404	422619.5N	0181602.8E

CHANGE: TMA classification vertical limits: Editorial.

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