INSTRUMENT APPROACH
CHART-ICAO

AD ELEV 527
HEIGHTS RELATED
TO THR RWY 11 ELEV 519

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

DUBROVNIK / Ruđer Bošković (LDDU)
ILS z or LOC z RWY 11
(RNAV 1 to ILS or LOC transition)

NOTES:
1. ILS z or LOC z RWY 11 instrument approach procedure not to be used when RADAR service unavailable.
2. DME required for ILS and LOC only approach.
3. ILS approach mode to be armed immediately after INKUP.
4. RNAV 1 required for initial approach, missed approach and TAA.
5. TAA for ZAGREB FIR only.

RNAV 1
GNSS required

DUBROVNIK
DME 110.10
CH 38X
IDU ....
42 34 08N
018 15 08E
571ft

DUBROVNIK
VOR/DME 115.40
CH 101 X
DBK ...
42 34 04N
018 15 22E
556 ft

LOC 110.1 IDU

Left side vertical text:
CHANGE: Final approach segment; missed approach segment; OCA(H) values; missed approach holding procedure; ADR table; notes; PBN Box; DBK VOR/DME position; DUBROVNIK DELIVERY frequency added; IDU DME frequency added; Airport name Dubrovnik/Čilipi to Dubrovnik/Ruđer Bošković; Obstacles; Editorial.

IAF
PILAP
5000

097°
(101.3° T)

5000
MAX IAS 210kt
1MIN

277°
(281.3° T)

114°
(118.0° T)
7.0

IF
INKUP
3800

114°

7.0
024°
(028.0°T)

IAF
ERASO
5000

IAF on ATC
authorization only

FAP
FAF LOC only
6.5 DME IDU
6.7 DME DBK
42 37 09.9N
018 07 17.6E

114°

4.0 DME IDU
4.2 DME DBK

114°
(118.2°T)

MM
MAPt LOC only
0.8 DME IDU
1.0 DME DBK

AT 1000

CTR DUBROVNIK D 4000ft MSL

10 NM

TAA
6200

204°

PILAP

024°

IF

25NM to PILAP

C
TMA DUBROVNIK
FL 205
7500FT MSL
Radar 123.600

D
TMA DUBROVNIK
7500FT MSL
1000FT AGL
Radar 123.600

IF
ERASO
5000
294°
024°
12NM
TAA
7600
25NM to ERASO

ALTITUDE
RELATED TO DESCENT
GRADIENT OF 5.2%

6.0 DME	IDU	2430
5.0 DME	IDU	2120
4.0 DME	IDU	1800
3.0 DME	IDU	1480
2.0 DME	IDU	1160

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

SCALE 1:300 000

| 5 | 0 | 5 | 10 km |
| 2 | 0 | | 5 NM |

VAR 4° E 2019

FELRO
4000
MAX IAS 185kt

(188.0° T)
184°
4000
MAX IAS 250kt
1MIN
004°
(008.0° T)

TRANSITION ALT 10 000

MISSED APPROACH:
Climb straight ahead. At 1000 ft turn RIGHT direct to FELRO (MAX IAS 185 kt), climbing to 4000 ft and hold.

IF
INKUP

FAP
FAF LOC only
6.5 DME IDU
6.7 DME DBK

4.0 DME IDU
4.2 DME DBK

MM
MAPt LOC only
0.8 DME IDU
1.0 DME DBK

IDU
DME

DBK
VOR/DME

3800

114°

GP 3.0° (5.24%)
114°

2600

ILS RDH
50

1806

774

(118.2°T)
114°

THR ELEV 519

NM to/from THR 11

| 12 | 11 | 10 | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 | 0 | 1 | 2 |

OCA (H)		A	B	C	D
Straight-in Approach	ILS CAT I press. altim.	677 (158)	687 (168)	721 (202)	730 (211)
	LOC only	880 (370)			

Timing not authorized for defining the MAPt.								
GS (kt)	70	90	100	120	140	160	180
Rate of descent (ft / min)	372	478	531	637	743	850	956

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DUBROVNIK / Ruđer Bošković (LDDU)
ILS z or LOC z RWY 11
(RNAV 1 to ILS or LOC transition)

LDDU ILS z or LOC z RWY 11 (RNAV 1 to ILS or LOC transition)
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	ERASO	-	-	4°E	-	-	+5000	-	-	IAF on ATC authorization only	RNAV 1
020	IF	TF	INKUP	-	024° (028.0°T)	4°E	7.0	-	+3800	-	-	-	
010	IAF	IF	PILAP	-	-	4°E	-	-	+5000	-	-	-	RNAV 1
020	IF	TF	INKUP	-	114° (118.0°T)	4°E	7.0	-	+3800	-	-	-	

AERONAUTICAL DATABASE REQUIREMENTS
Conventional procedure essential fixes/points
ILS z or LOC z RWY 11

LOC only - final approach descent angle: 3.00°

Fix identification	Coordinates	True bearing or ARC distance providing track	True bearing or distance providing intersection
IF (INKUP)	42 39 56.6N 018 00 14.4E	-	-
FAF LOC only	43 37 09.9N 018 07 17.6E	118.21° (IDU LOC)	6.53 DME IDU 6.72 DME DBK
MAPt LOC only (MM 11)	42 34 27.81N 018 14 08.83E	118.21° (IDU LOC)	0.80 DME IDU 0.99 DME DBK

LDDU ILS z or LOC z RWY 11 (RNAV 1 to ILS or LOC transition)
Proposed tabular description for navigation database coding - FINAL TRANSITION (MISSED APPROACH)

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	-	CA	-	-	114° (118.2°)	4°E	-	-	@1000	-	-	-	RNAV 1
020	MAHF	DF	FELRO	-	-	4°E	-	R	@4000	-185	-	-	RNAV 1
030	MAHF	HM	FELRO	-	004° (008.0°T)	4°E	1 MIN	L	@4000	-250	-	-	RNAV 1

RNAV HOLDING tabular description

Waypoint name	Path Term-inator	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

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