STANDARD ARRIVAL CHART
INSTRUMENT (STAR) - ICAO

TRANSITION ALTITUDE
10 000

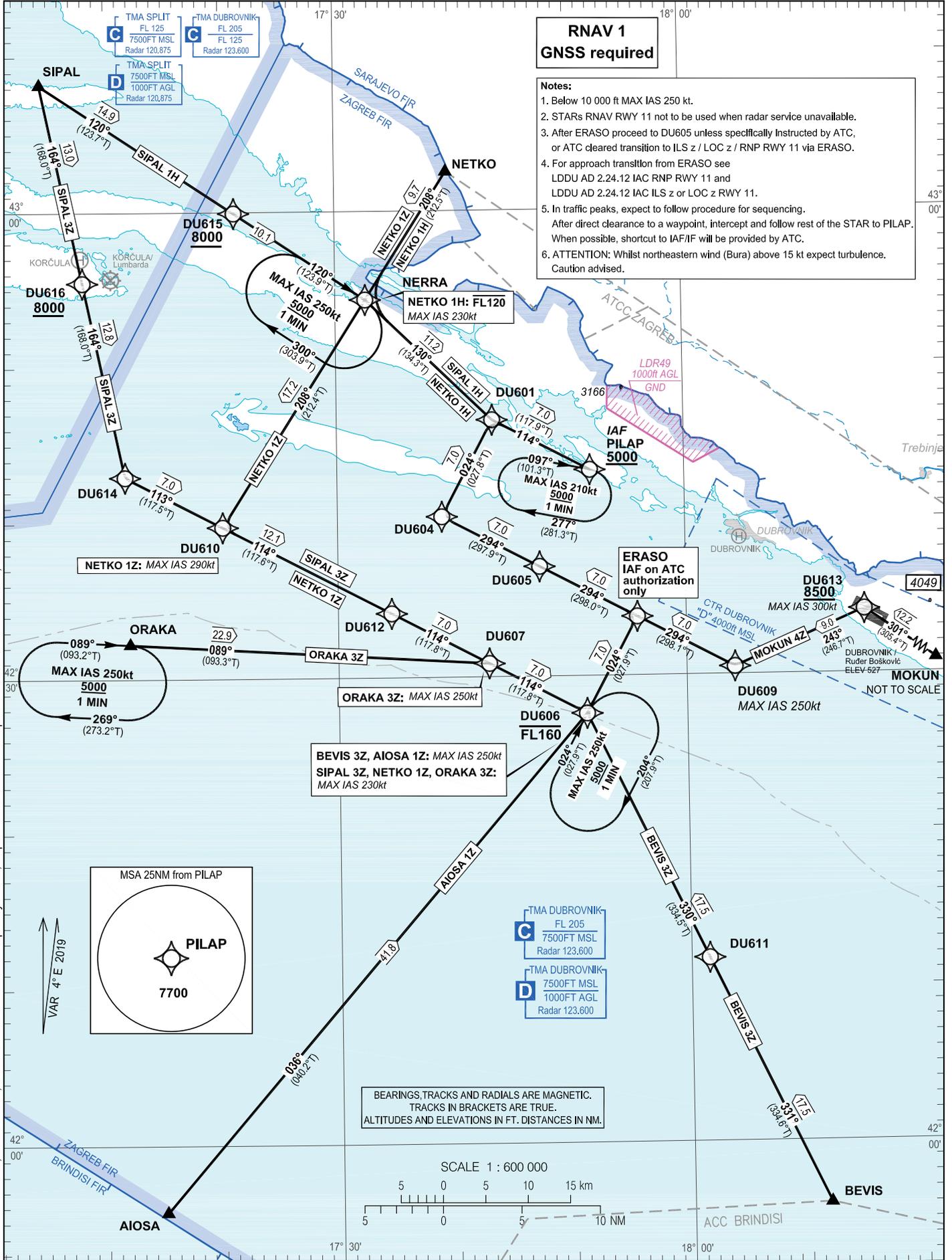|	
DUBROVNIK ATIS	118.425
DUBROVNIK RADAR	123.600
DUBROVNIK TOWER	129.500
DUBROVNIK DELIVERY	125.400

DUBROVNIK / Ruđer Bošković (LDDU)

SIPAL 3Z   SIPAL 1H   NETKO 1Z   NETKO 1H
MOKUN 4Z   BEVIS 3Z   AIOSA 1Z   ORAKA 3Z   **RNAV RWY 11**

RNAV 1
GNSS required

Notes:
1. Below 10 000 ft MAX IAS 250 kt.
2. STARs RNAV RWY 11 not to be used when radar service unavailable.
3. After ERASO proceed to DU605 unless specifically instructed by ATC,
   or ATC cleared transition to ILS z / LOC z / RNP RWY 11 via ERASO.
4. For approach transition from ERASO see
   LDDU AD 2.24.12 IAC RNP RWY 11 and
   LDDU AD 2.24.12 IAC ILS z or LOC z RWY 11.
5. In traffic peaks, expect to follow procedure for sequencing.
   After direct clearance to a waypoint, intercept and follow rest of the STAR to PILAP.
   When possible, shortcut to IAF/IF will be provided by ATC.
6. ATTENTION: Whilst northeastern wind (Bura) above 15 kt expect turbulence.
   Caution advised.

TMA SPLIT FL 125 / 7500FT MSL Radar 120.875
TMA DUBROVNIK FL 205 / FL 125 Radar 123.600
TMA SPLIT 7500FT MSL / 1000FT AGL Radar 120.875

SARAJEVO FIR
ZAGREB FIR
ATCC ZAGREB

SIPAL
NETKO
NERRA
KORČULA / Lumbarda
KORČULA
Trebinje

DU615 8000
DU616 8000
DU614
DU610
DU612
DU601
DU604
DU605
DU607
DU606 FL160
DU609
DU613 8500
DU611
ORAKA
MOKUN
AIOSA
BEVIS
PILAP 5000

NETKO 1H: FL120 / MAX IAS 230kt
NETKO 1Z: MAX IAS 290kt
ORAKA 3Z: MAX IAS 250kt

IAF PILAP 5000
MAX IAS 250kt 5000 1 MIN
MAX IAS 210kt 5000 1 MIN

ERASO IAF on ATC authorization only

LDR49 1000ft AGL GND
CTR DUBROVNIK "D" 4000ft MSL

DU613 8500 MAX IAS 300kt
DUBROVNIK / Ruđer Bošković ELEV 527
MOKUN NOT TO SCALE
DU609 MAX IAS 250kt

BEVIS 3Z, AIOSA 1Z: MAX IAS 250kt
SIPAL 3Z, NETKO 1Z, ORAKA 3Z: MAX IAS 230kt

MAX IAS 250kt 5000 1 MIN

TMA DUBROVNIK FL 205 / 7500FT MSL Radar 123.600
TMA DUBROVNIK 7500FT MSL / 1000FT AGL Radar 123.600

MSA 25NM from PILAP
PILAP 7700

VAR 4° E 2019

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

SCALE 1 : 600 000
5 0 5 10 15 km
5 0 5 10 NM

ZAGREB FIR / BRINDISI FIR
ACC BRINDISI

CHANGE: New: SIPAL 1H, NETKO 1H, NETKO 1Z, AIOSA 1Z, DU606 HLDG; changed: SIPAL 3Z, MOKUN 4Z, BEVIS 3Z, ORAKA 3Z, NERRA HLDG; withdrawn: TIKSA 2Z, NERRA 2Z, NERRA 2X, NERRA 2Z, LOKRU 2Z; coding tables updated PBN Box; Notes added; DUBROVNIK DELIVERY frequency added; Airport name Dubrovnik/Čilipi to Dubrovnik/Ruđer Bošković; Editorial.

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AIRAC AIP AMDT 013/2024

DUBROVNIK / Ruđer Bošković (LDDU)

RNAV RWY 11	SIPAL 3Z	SIPAL 1H	NETKO 1Z	NETKO 1H
	MOKUN 4Z	BEVIS 3Z	AIOSA 1Z	ORAKA 3Z

NOTES:
1. IAF on ATC authorization only: For APPROACH TRANSITION from ERASO see LDDU AD 2.24.12 IAC RNP RWY 11 and LDDU AD 2.24.12 IAC ILS z or LOC z RWY 11.

LDDU RNAV STANDARD ARRIVAL RWY 11

Proposed tabular description for navigation database coding

Serial number	Route	Path descriptor	Waypoint name	Flyover	Course °M (°T)	Magnetic variation	Distance (NM)	Turn direction	Altitude (ft)	Speed (kt)	Remarks	NAV SPEC
010	SIPAL 3Z	IF	SIPAL	-	-	4°E	-	-	-	-	-	
020		TF	DU616	-	164° (168.0°T)	4°E	13.0	-	+8000	-	-	
030		TF	DU614	-	164° (168.0°T)	4°E	12.8	-	-	-	-	
040		TF	DU610	-	113° (117.5°T)	4°E	7.0	-	-	-	-	
050		TF	DU612	-	114° (117.6°T)	4°E	12.1	-	-	-	-	
060		TF	DU607	-	114° (117.8°T)	4°E	7.0	-	-	-	-	
070		TF	DU606	-	114° (117.8°T)	4°E	7.0	-	-FL160	-230	-	RNAV 1
080		TF	ERASO	-	024° (027.9°T)	4°E	7.0	L	-	-	IAF on ATC authorization only	
090		TF	DU605	-	294° (298.0°T)	4°E	7.0	L	-	-	-	
100		TF	DU604	-	294° (297.9°T)	4°E	7.0	-	-	-	-	
110		TF	DU601	-	024° (027.8°T)	4°E	7.0	R	-	-	-	
120		TF	PILAP	-	114° (117.9°T)	4°E	7.0	R	+5000	-	IAF	
010	SIPAL 1H	IF	SIPAL	-	-	4°E	-	-	-	-	-	
020		TF	DU615	-	120° (123.7°T)	4°E	14.9	-	+8000	-	-	
030		TF	NERRA	-	120° (123.9°T)	4°E	10.1	-	-	-	-	RNAV 1
040		TF	DU601	-	130° (134.3°T)	4°E	11.2	-	-	-	-	
050		TF	PILAP	-	114° (117.9°T)	4°E	7.0	-	+5000	-	IAF	

CHANGE: New: SIPAL 1H, NETKO 1H, NETKO 1Z, AIOSA 1Z, DU606 HLDG; changed: SIPAL 3Z, MOKUN 4Z, BEVIS 3Z, ORAKA 3Z, NERRA HLDG; withdrawn: TIKSA 2Z, NERRA 2Z, NERRA 2X, NERRA 2Z, LOKRU 2Z; coding tables updated PBN Box; Notes added; DUBROVNIK DELIVERY frequency added; Airport name Dubrovnik/Čilipi to Dubrovnik/Ruđer Bošković; Editorial.

DUBROVNIK / Ruđer Bošković (LDDU)

SIPAL 3Z	SIPAL 1H	NETKO 1Z	NETKO 1H	
MOKUN 4Z	BEVIS 3Z	AIOSA 1Z	ORAKA 3Z	RNAV RWY 11

Serial number	Route	Path descriptor	Waypoint name	Flyover	Course °M (°T)	Magnetic variation	Distance (NM)	Turn direction	Altitude (ft)	Speed (kt)	Remarks	NAV SPEC
010	NETKO 1Z	IF	NETKO	-	-	4°E	-	-	-	-	-	
020		TF	NERRA	-	208° (212.5°T)	4°E	9.7	-	-	-	-	
030		TF	DU610	-	208° (212.4°T)	4°E	17.2	-	-	-290	-	
040		TF	DU612	-	114° (117.6°T)	4°E	12.1	L	-	-	-	
050		TF	DU607	-	114° (117.8°T)	4°E	7.0	-	-	-	-	
060		TF	DU606	-	114° (117.8°T)	4°E	7.0	-	-FL160	-230	-	RNAV 1
070		TF	ERASO	-	024° (027.9°T)	4°E	7.0	L	-	-	IAF on ATC authorization only	
080		TF	DU605	-	294° (298.0°T)	4°E	7.0	L	-	-	-	
090		TF	DU604	-	294° (297.9°T)	4°E	7.0	-	-	-	-	
100		TF	DU601	-	024° (027.8°T)	4°E	7.0	R	-	-	-	
110		TF	PILAP	-	114° (117.9°T)	4°E	7.0	R	+5000	-	IAF	
010	NETKO 1H	IF	NETKO	-	-	4°E	-	-	-	-	-	
020		TF	NERRA	-	208° (212.5°T)	4°E	9.7	-	-FL120	-230	-	
030		TF	DU601	-	130° (134.3°T)	4°E	11.2	-	-	-	-	RNAV 1
040		TF	PILAP	-	114° (117.9°T)	4°E	7.0	-	+5000	-	IAF	
010	MOKUN 4Z	IF	MOKUN	-	-	4°E	-	-	-	-	-	
020		TF	DU613	-	301° (305.4°T)	4°E	12.2	-	+8500	-300	-	
030		TF	DU609	-	243° (246.7°T)	4°E	9.0	-	-	-250	-	
040		TF	ERASO	-	294° (298.1°T)	4°E	7.0	-	-	-	IAF on ATC authorization only	
050		TF	DU605	-	294° (298.0°T)	4°E	7.0	-	-	-	-	RNAV 1
060		TF	DU604	-	294° (297.9°T)	4°E	7.0	-	-	-	-	
070		TF	DU601	-	024° (027.8°T)	4°E	7.0	R	-	-	-	
080		TF	PILAP	-	114° (117.9°T)	4°E	7.0	R	+5000	-	IAF	

DUBROVNIK / Ruđer Bošković (LDDU)

RNAV RWY 11	SIPAL 3Z SIPAL 1H NETKO 1Z NETKO 1H
	MOKUN 4Z BEVIS 3Z AIOSA 1Z ORAKA 3Z

Serial number	Route	Path descriptor	Waypoint name	Flyover	Course °M (°T)	Magnetic variation	Distance (NM)	Turn direction	Altitude (ft)	Speed (kt)	Remarks	NAV SPEC
010	BEVIS 3Z	IF	BEVIS	-	-	4°E	-	-	-	-	-	
020		TF	DU611	-	331° (334.6°T)	4°E	17.5	-	-	-	-	
030		TF	DU606	-	330° (334.5°T)	4°E	17.5	-	-FL160	-250	-	
040		TF	ERASO	-	024° (027.9°T)	4°E	7.0	-	-	-	IAF on ATC authorization only	RNAV 1
050		TF	DU605	-	294° (298.0°T)	4°E	7.0	L	-	-	-	
060		TF	DU604	-	294° (297.9°T)	4°E	7.0	-	-	-	-	
070		TF	DU601	-	024° (027.8°T)	4°E	7.0	R	-	-	-	
080		TF	PILAP	-	114° (117.9°T)	4°E	7.0	R	+5000	-	IAF	
010	AIOSA 1Z	IF	AIOSA	-	-	4°E	-	-	-	-	-	
020		TF	DU606	-	036° (040.2°T)	4°E	41.8	-	-FL160	-250	-	
030		TF	ERASO	-	024° (027.9°T)	4°E	7.0	-	-	-	IAF on ATC authorization only	RNAV 1
040		TF	DU605	-	294° (298.0°T)	4°E	7.0	L	-	-	-	
050		TF	DU604	-	294° (297.9°T)	4°E	7.0	-	-	-	-	
060		TF	DU601	-	024° (027.8°T)	4°E	7.0	R	-	-	-	
070		TF	PILAP	-	114° (117.9°T)	4°E	7.0	R	+5000	-	IAF	
010	ORAKA 3Z	IF	ORAKA	-	-	4°E	-	-	-	-	-	
020		TF	DU607	-	089° (093.3°T)	4°E	22.9	-	-	-250	-	
030		TF	DU606	-	114° (117.8°T)	4°E	7.0	-	-FL160	-230	-	
040		TF	ERASO	-	024° (027.9°T)	4°E	7.0	L	-	-	IAF on ATC authorization only	RNAV 1
050		TF	DU605	-	294° (298.0°T)	4°E	7.0	L	-	-	-	
060		TF	DU604	-	294° (297.9°T)	4°E	7.0	-	-	-	-	
070		TF	DU601	-	024° (027.8°T)	4°E	7.0	R	-	-	-	
080		TF	PILAP	-	114° (117.9°T)	4°E	7.0	R	+5000	-	IAF	

CHANGE: New: SIPAL 1H, NETKO 1Z, NETKO 1H, AIOSA 1Z, DU606 HLDG; changed: SIPAL 3Z, MOKUN 4Z, BEVIS 3Z, ORAKA 3Z, NERRA HLDG; withdrawn: TIKSA 2Z, NERRA 2Z, NERRA 2X, NERRA 2Z, LOKRU 2Z; coding tables updated PBN Box; Notes added; DUBROVNIK DELIVERY frequency added; Airport name Dubrovnik/Čilipi to Dubrovnik/Ruđer Bošković; Editorial.

AIP HRVATSKA
AIP CROATIA

LDDU AD 2.24.10 STAR RNAV RWY 11 -5
23 JAN 2025

DUBROVNIK / Ruđer Bošković (LDDU)

| SIPAL 3Z | SIPAL 1H | NETKO 1Z | NETKO 1H | |
| MOKUN 4Z | BEVIS 3Z | AIOSA 1Z | ORAKA 3Z | RNAV RWY 11 |

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
NERRA	HM	120° (123.9°T)	1 MIN / -	R	5000	-	250	4°E	-	RNAV 1
ORAKA	HM	089° (093.2°T)	1 MIN / -	R	5000	-	250	4°E	-	RNAV 1
DU606	HM	024° (027.9°T)	1 MIN / -	R	5000	-	250	4°E	-	RNAV 1

Waypoint coordinates		
Waypoint name	WGS-84 latitude	WGS-84 longitude
AIOSA	415542N	0171454E
BEVIS	415558N	0181140E
ERASO	423345.7N	0175547.1E
MOKUN	422701N	0182848E
NERRA	425418.5N	0173236.3E
NETKO	430230N	0173942E
ORAKA	423213N	0171202E
PILAP	424313.8N	0175151.5E
SIPAL	430812N	0170425E
DU601	424630.5N	0174327.6E
DU604	424018.9N	0173901.6E
DU605	423702.6N	0174724.8E
DU606	422734.5N	0175120.8E
DU607	423051.1N	0174259.0E
DU609	423028.1N	0180408.6E
DU610	423944.6N	0172005.2E
DU611	421146.7N	0180132.9E
DU612	423407.1N	0173436.4E
DU613	423403.53N	0181521.99E
DU614	424258.6N	0171140.9E
DU615	425955.6N	0172115.3E
DU616	425528.5N	0170805.4E

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