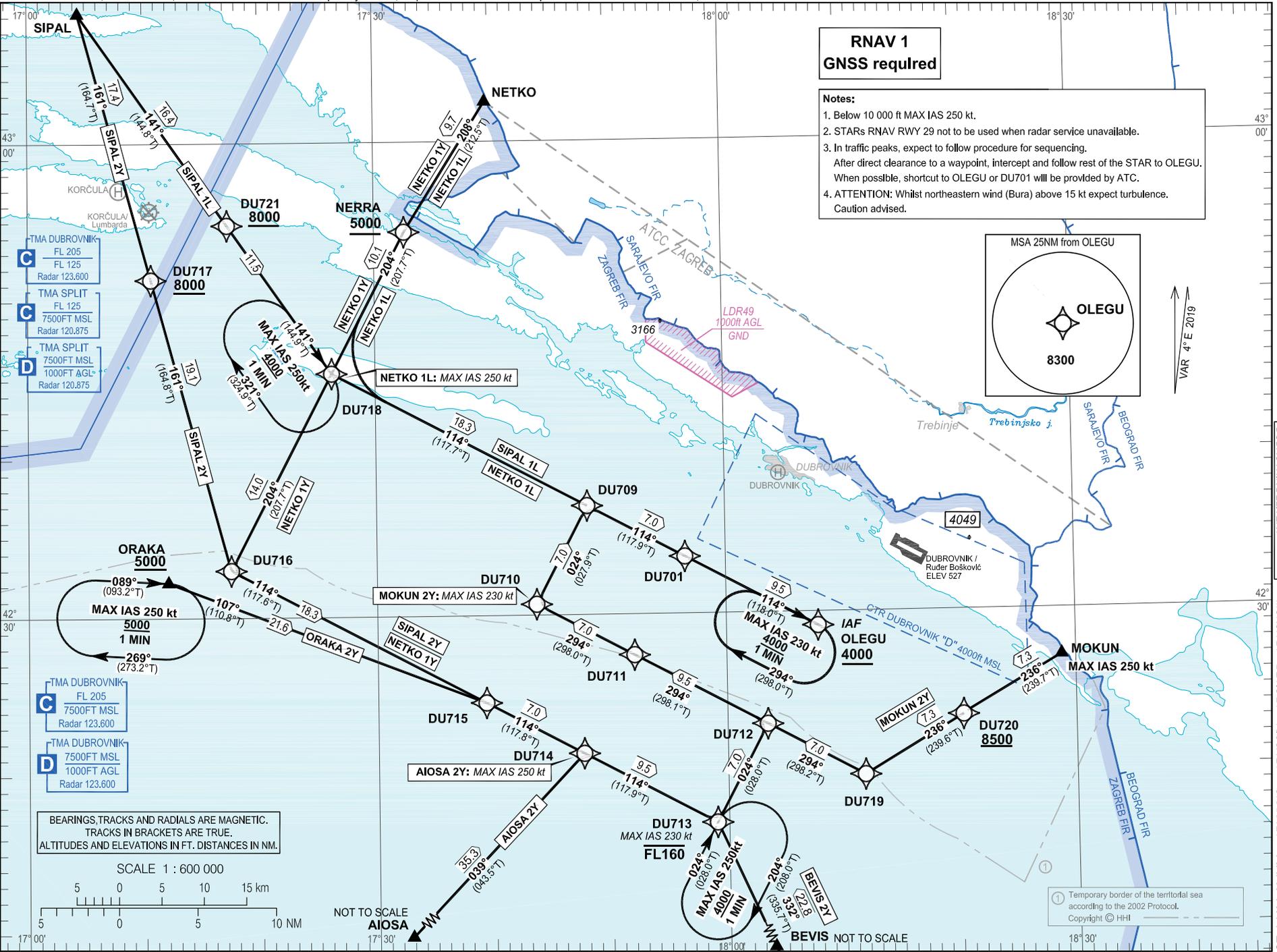


CHANGE: New: SIPAL 1L, NETKO 1Y, NETKO 1L, DU718 HLDG, ORAKA HLDG, DU713 HLDG; changed: SIPAL 2Y, ORAKA 2Y, AJOSA 2Y, BEVIS 2Y, MOKUN 2Y; withdrawn: TIKSA 1Y, NERRA 1Y; coding tables updated; PBN Box; Notes added; DUBROVNIK DELIVERY frequency added; Airport name Dubrovnik/Čilipi to Dubrovnik/Ruder Bošković; Editorial.

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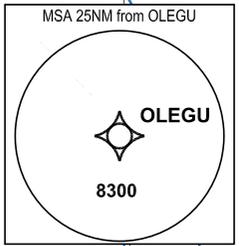
Hrvatska kontrola zračne plovidbe d.o.o.

AIRAC AIP AMDT 013/2024



**RNAV 1
GNSS required**

- Notes:**
- Below 10 000 ft MAX IAS 250 kt.
 - STARs RNAV RWY 29 not to be used when radar service unavailable.
 - In traffic peaks, expect to follow procedure for sequencing.
After direct clearance to a waypoint, intercept and follow rest of the STAR to OLEGU.
When possible, shortcut to OLEGU or DU701 will be provided by ATC.
 - ATTENTION: Whilst northeastern wind (Bura) above 15 kt expect turbulence.
Caution advised.



VAR 4° E 2019

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

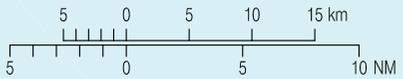
SIPAL 2Y	SIPAL 1L	NETKO 1Y	NETKO 1L	DUBROVNIK / Ruder Bošković (LDDU)
MOKUN 2Y	BEVIS 2Y	AJOSA 2Y	ORAKA 2Y	RNAV RWY 29

AIP HRVATSKA
AIP CROATIA

LDDU AD 2.24.10 STAR RNAV RWY 29 - 1
23 JAN 2025

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

SCALE 1 : 600 000



NOT TO SCALE
AIOSA

NOT TO SCALE
BEVIS

① Temporary border of the territorial sea according to the 2002 Protocol.
Copyright © HHI

DUBROVNIK / Ruđer Bošković (LDDU)

RNAV RWY 29 SIPAL 2Y SIPAL 1L NETKO 1Y NETKO 1L
MOKUN 2Y BEVIS 2Y AIOSA 2Y ORAKA 2Y

LDDU RNAV STANDARD ARRIVAL RWY 29

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 2Y	IF	SIPAL	-	-	4°E	-	-	-	-	-	RNAV 1
020		TF	DU717	-	161° (164.7°T)	4°E	17.4	-	+8000	-	-	
030		TF	DU716	-	161° (164.8°T)	4°E	19.1	-	-	-	-	
040		TF	DU715	-	114° (117.6°T)	4°E	18.3	-	-	-	-	
050		TF	DU714	-	114° (117.8°T)	4°E	7.0	-	-	-	-	
060		TF	DU713	-	114° (117.9°T)	4°E	9.5	-	-FL160	-230	-	
070		TF	DU712	-	024° (028.0°T)	4°E	7.0	L	-	-	-	
080		TF	DU711	-	294° (298.1°T)	4°E	9.5	L	-	-	-	
090		TF	DU710	-	294° (298.0°T)	4°E	7.0	-	-	-	-	
100		TF	DU709	-	024° (027.9°T)	4°E	7.0	R	-	-	-	
110		TF	DU701	-	114° (117.9°T)	4°E	7.0	R	-	-	-	
120		TF	OLEGU	-	114° (118.0°T)	4°E	9.5	-	+4000	-	IAF	
010	SIPAL 1L	IF	SIPAL	-	-	4°E	-	-	-	-	-	RNAV 1
020		TF	DU721	-	141° (144.8°T)	4°E	16.4	-	+8000	-	-	
030		TF	DU718	-	141° (144.9°T)	4°E	11.5	-	-	-	-	
040		TF	DU709	-	114° (117.7°T)	4°E	18.3	-	-	-	-	
050		TF	DU701	-	114° (117.9°T)	4°E	7.0	-	-	-	-	
060		TF	OLEGU	-	114° (118.0°T)	4°E	9.5	-	+4000	-	IAF	

CHANGE: New: SIPAL 1L, NETKO 1Y, NETKO 1L, DU718 HLDG, ORAKA HLDG, DU713 HLDG; changed: SIPAL 2Y, ORAKA 2Y, AIOSA 2Y, BEVIS 2Y, MOKUN 2Y; withdrawn: TIKSA 1Y, NERRA 1Y; coding tables updated; PBN Box; Notes added; DUBROVNIK DELIVERY frequency added; Airport name Dubrovnik/Cilipi to Dubrovnik/Ruđer Bošković; Editorial.

DUBROVNIK / Ruđer Bošković (LDDU)

SIPAL 2Y SIPAL 1L NETKO 1Y NETKO 1L
MOKUN 2Y BEVIS 2Y AIOsa 2Y ORAKA 2Y RNAV RWY 29

CHANGE: New: SIPAL 1L, NETKO 1Y, NETKO 1L, DU718 HLDG, ORAKA HLDG, DU713 HLDG; changed: SIPAL 2Y, AIOsa 2Y, ORAKA 2Y, BEVIS 2Y, MOKUN 2Y; withdrawn: TIKSA 1Y, NERRA 1Y; coding tables updated; PBN Box; Notes added; DUBROVNIK DELIVERY frequency added; Airport name Dubrovnik/Čilipi to Dubrovnik/Ruđer Bošković; Editorial.

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 1Y	IF	NETKO	-	-	4°E	-	-	-	-	-	RNAV 1
020		TF	NERRA	-	208° (212.5°T)	4°E	9.7	-	+5000	-	-	
030		TF	DU718	-	204° (207.7°T)	4°E	10.1	-	-	-	-	
040		TF	DU716	-	204° (207.7°T)	4°E	14.0	-	-	-	-	
050		TF	DU715	-	114° (117.6°T)	4°E	18.3	L	-	-	-	
060		TF	DU714	-	114° (117.8°T)	4°E	7.0	-	-	-	-	
070		TF	DU713	-	114° (117.9°T)	4°E	9.5	-	-FL160	-230	-	
080		TF	DU712	-	024° (028.0°T)	4°E	7.0	L	-	-	-	
090		TF	DU711	-	294° (298.1°T)	4°E	9.5	L	-	-	-	
100		TF	DU710	-	294° (298.0°T)	4°E	7.0	-	-	-	-	
110		TF	DU709	-	024° (027.9°T)	4°E	7.0	R	-	-	-	
120		TF	DU701	-	114° (117.9°T)	4°E	7.0	R	-	-	-	
130		TF	OLEGU	-	114° (118.0°T)	4°E	9.5	-	+4000	-	IAF	
010	NETKO 1L	IF	NETKO	-	-	4°E	-	-	-	-	-	RNAV 1
020		TF	NERRA	-	208° (212.5°T)	4°E	9.7	-	+5000	-	-	
030		TF	DU718	-	204° (207.7°T)	4°E	10.1	-	-	-250	-	
040		TF	DU709	-	114° (117.7°T)	4°E	18.3	L	-	-	-	
050		TF	DU701	-	114° (117.9°T)	4°E	7.0	-	-	-	-	
060		TF	OLEGU	-	114° (118.0°T)	4°E	9.5	-	+4000	-	IAF	

DUBROVNIK / Ruđer Bošković (LDDU)

RNAV RWY 29 SIPAL 2Y SIPAL 1L NETKO 1Y NETKO 1L
MOKUN 2Y BEVIS 2Y AIOSA 2Y ORAKA 2Y

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	MOKUN 2Y	IF	MOKUN	-	-	4°E	-	-	-	-250	-	RNAV 1
020		TF	DU720	-	236° (239.7°T)	4°E	7.3	-	+8500	-	-	
030		TF	DU719	-	236° (239.6°T)	4°E	7.3	-	-	-	-	
040		TF	DU712	-	294° (298.2°T)	4°E	7.0	-	-	-	-	
050		TF	DU711	-	294° (298.1°T)	4°E	9.5	-	-	-	-	
060		TF	DU710	-	294° (298.0°T)	4°E	7.0	-	-	-230	-	
070		TF	DU709	-	024° (027.9°T)	4°E	7.0	R	-	-	-	
080		TF	DU701	-	114° (117.9°T)	4°E	7.0	R	-	-	-	
090		TF	OLEGU	-	114° (118.0°T)	4°E	9.5	-	+4000	-	IAF	
010	BEVIS 2Y	IF	BEVIS	-	-	4°E	-	-	-	-	-	RNAV 1
020		TF	DU713	-	332° (335.7°T)	4°E	22.8	-	-FL160	-230	-	
030		TF	DU712	-	024° (028.0°T)	4°E	7.0	-	-	-	-	
040		TF	DU711	-	294° (298.1°T)	4°E	9.5	L	-	-	-	
050		TF	DU710	-	294° (298.0°T)	4°E	7.0	-	-	-	-	
060		TF	DU709	-	024° (027.9°T)	4°E	7.0	R	-	-	-	
070		TF	DU701	-	114° (117.9°T)	4°E	7.0	R	-	-	-	
080		TF	OLEGU	-	114° (118.0°T)	4°E	9.5	-	+4000	-	IAF	

CHANGE: New: SIPAL 1L, NETKO 1Y, NETKO 1L, DU718 HLDG, ORAKA HLDG, DU713 HLDG; changed: SIPAL 2Y, ORAKA 2Y, AIOSA 2Y, BEVIS 2Y, MOKUN 2Y; withdrawn: TIKSA 1Y, NERRA 1Y; 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 2Y SIPAL 1L NETKO 1Y NETKO 1L
MOKUN 2Y BEVIS 2Y AIOSA 2Y ORAKA 2Y RNAV RWY 29

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	AIOSA 2Y	IF	AIOSA	-	-	4°E	-	-	-	-	-	RNAV 1
020		TF	DU714	-	039° (043.5°T)	4°E	35.3	-	-	-250	-	
030		TF	DU713	-	114° (117.9°T)	4°E	9.5	-	-FL160	-230	-	
040		TF	DU712	-	024° (028.0°T)	4°E	7.0	L	-	-	-	
050		TF	DU711	-	294° (298.1°T)	4°E	9.5	L	-	-	-	
060		TF	DU710	-	294° (298.0°T)	4°E	7.0	-	-	-	-	
070		TF	DU709	-	024° (027.9°T)	4°E	7.0	R	-	-	-	
080		TF	DU701	-	114° (117.9°T)	4°E	7.0	R	-	-	-	
090		TF	OLEGU	-	114° (118.0°T)	4°E	9.5	-	+4000	-	IAF	
010	ORAKA 2Y	IF	ORAKA	-	-	4°E	-	-	+5000	-	-	RNAV 1
020		TF	DU715	-	107° (110.8°T)	4°E	21.6	-	-	-	-	
030		TF	DU714	-	114° (117.8°T)	4°E	7.0	-	-	-	-	
040		TF	DU713	-	114° (117.9°T)	4°E	9.5	-	-FL160	-230	-	
050		TF	DU712	-	024° (028.0°T)	4°E	7.0	L	-	-	-	
060		TF	DU711	-	294° (298.1°T)	4°E	9.5	L	-	-	-	
070		TF	DU710	-	294° (298.0°T)	4°E	7.0	-	-	-	-	
080		TF	DU709	-	024° (027.9°T)	4°E	7.0	R	-	-	-	
090		TF	DU701	-	114° (117.9°T)	4°E	7.0	R	-	-	-	
100		TF	OLEGU	-	114° (118.0°T)	4°E	9.5	-	+4000	-	IAF	

CHANGE: New: SIPAL 1L, NETKO 1Y, NETKO 1L, DU718 HLDG, ORAKA HLDG, DU713 HLDG; changed: SIPAL 2Y, ORAKA 2Y, AIOSA 2Y, BEVIS 2Y, MOKUN 2Y; withdrawn: TIKSA 1Y, NERRA 1Y; coding tables updated: PBN Box; Notes added: DUBROVNIK DELIVERY frequency added; Airport name Dubrovnik/Cilipi to Dubrovnik/Ruđer Bošković; Editorial.

DUBROVNIK / Ruđer Bošković (LDDU)

RNAV RWY 29 SIPAL 2Y SIPAL 1L NETKO 1Y NETKO 1L
MOKUN 2Y BEVIS 2Y AIOSA 2Y ORAKA 2Y

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
OLEGU	HM	114° (118.0°T)	1 MIN / -	R	4000	-	230	4°E	-	RNAV 1
DU718	HM	141° (144.9°T)	1 MIN / -	R	4000	-	250	4°E	-	RNAV 1
ORAKA	HM	089° (093.2°T)	1 MIN / -	R	5000	-	250	4°E	-	RNAV 1
DU713	HM	024° (028.0°T)	1 MIN / -	R	4000	-	250	4°E	-	RNAV 1

Waypoint coordinates

Waypoint name	WGS-84 latitude	WGS-84 longitude
AIOSA	415542N	0171454E
BEVIS	415558N	0181140E
MOKUN	422701N	0182848E
NERRA	425418.5N	0173236.3E
NETKO	430230N	0173942E
OLEGU	422906.1N	0180754.0E
ORAKA	423213N	0171202E
SIPAL	430812N	0170425E
DU701	423335.4N	0175631.1E
DU709	423652.4N	0174808.8E
DU710	423041.0N	0174343.0E
DU711	422724.4N	0175204.7E
DU712	422255.4N	0180326.8E
DU713	421644.6N	0175900.4E
DU714	422113.1N	0174739.1E
DU715	422429.4N	0173918.0E
DU716	423258.7N	0171726.8E
DU717	425122.8N	0171040.0E
DU718	424523.4N	0172614.5E
DU719	421937.4N	0181146.4E
DU720	422319.4N	0182016.7E
DU721	425448.0N	0171716.6E

CHANGE: New: SIPAL 1L, NETKO 1Y, NETKO 1L, DU718 HLDG, ORAKA HLDG, DU713 HLDG; changed: SIPAL 2Y, ORAKA 2Y, AIOSA 2Y, BEVIS 2Y, MOKUN 2Y; withdrawn: TIKSA 1Y, NERRA 1Y; coding tables updated; PBN Box; Notes added; DUBROVNIK DELIVERY frequency added; Airport name Dubrovnik/Čilipi to Dubrovnik/Ruđer Bošković; Editorial.