CROATIA CONTROL

VFR CHART WITH RECOMMENDED VFR ROUTES
CROATIA

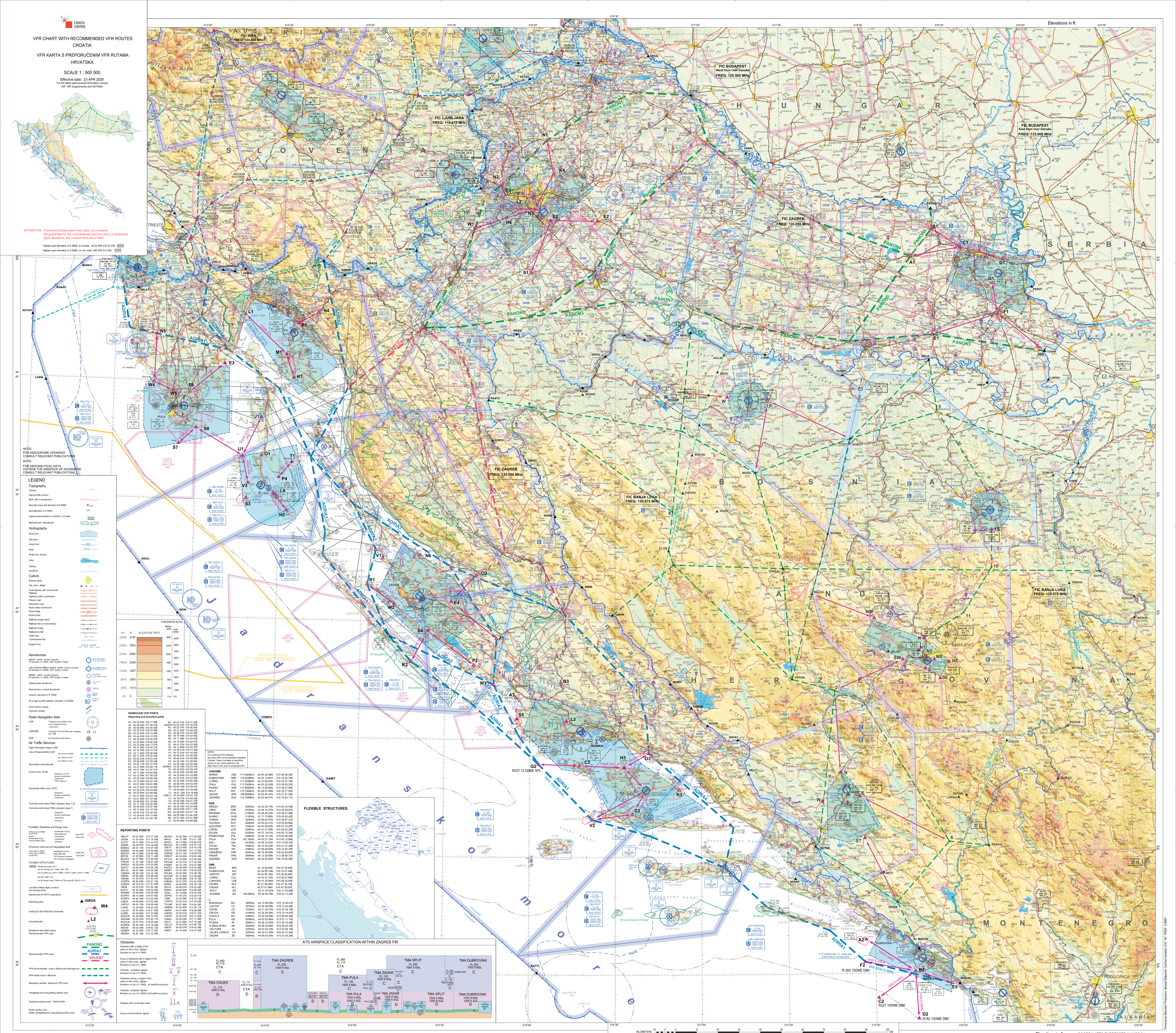
VFR KARTA S PREPORUČENIM VFR RUTAMA
HRVATSKA

SCALE 1 : 500 000

Effective date: 23 APR 2020
For the latest aeronautical information consult
AIP, AIP-Supplements and NOTAMs

ATTENTION: Prominent transmission lines data not complete!
No guarantee for the completeness and accuracy of obstacles!
Spot elevations and contour lines are in feet!

Highest spot elevation in ft AMSL in Croatia 44 03 45N 016 22 57E 6008
Highest spot elevation in ft AMSL on the chart 046 23N 013 50E 9397


Elevations in ft
FIC WIEN FREQ: 124.400 MHz
FIC LJUBLJANA FREQ: 118.475 MHz
FIC BUDAPEST West from river Danube FREQ: 125.500 MHz
FIC BUDAPEST East from river Danube FREQ: 133.000 MHz
FIC ZAGREB FREQ: 135.050 MHz
FIC BANJA LUKA FREQ: 135.575 MHz
AUSTRIA
SLOVENIA
HUNGARY
SERBIA
BOSNIA AND HERZEGOVINA
MONTENEGRO
ALBANIA
Jadransko more
ZAGREB
LJUBLJANA
SARAJEVO
SPLIT
ZADAR
RIJEKA
PULA
OSIJEK
DUBROVNIK
PODGORICA
TRIESTE
PANON1
PANON2
PANON3
PANON4
PANON5
ADRIA1
ADRIA2
ADRIA3
ADRIA4
VELEB1
VFR1
VFR2
VFR3
VFR5
ACC PADOVA
ACC ZAGREB
FIR ZAGREB
FIR MILANO
FIR BRINDISI
FIR BEOGRAD
FIR BUDAPEST
SPEEDY A SECTOR 5000FT AMSL - FL125/FL280
SPEEDY B SECTOR FL125 - FL250/FL280
MAX 1500 ft AMSL
MIN 4500 ft AMSL
R237 12.5DME SPL
R 265 15DME DBK
R227 15DME DBK
R182 15DME DBK
Transverse Mercator Projection, Bessel Ellipsoid, Central meridian 016° 30', PRSF 0.9997

NOTE:
FOR AERODROME OPENINGS
CONSULT RELEVANT PUBLICATIONS

NOTE:
FOR AERONAUTICAL DATA
OUTSIDE THE AIRSPACE OF ZAGREB FIR
CONSULT RELEVANT PUBLICATIONS

LEGEND

Topography

Contour
Approximate contour
Bluff, cliff or escarpment
Mountain pass with elevation in ft AMSL 3045
Spot elevation in ft AMSL 5745
Highest spot elevation in ft AMSL in Croatia 6008
National park; natural park

Hydrography

Shore line
Salt pans
Large river Sava
River V.Strug
Small river, brooks
Lake Vransko
Swamp
Aqueduct

Culture

Built-up areas
City, town, village
Dual highway with connectores
Highway
Highway under construction
Primary road
Secondary road
Road under construction
Road bridge
Road tunnel
Railroad (single track)
Railroad (two or more tracks)
Railroad bridge
Railroad tunnel
Cable way
Transmission line
Izogonic line 4°30' E (2019)

Aerodromes

Airport; name, location indicator, AD elevation in ft AMSL, RWY length in metres — SPLIT/Kaštela LDSP 78FT 2550m
Joint civil and military airport; name, location indicator, AD elevation in ft AMSL, RWY length in metres — ZAGREB/ Pleso LDZA 353FT 3252m
Airfield; name, location indicator, AD elevation in ft AMSL, RWY length in metres — SINJ/Sinj LDSS 979FT 1026m
Closed water aerodrome — SPLIT/ Resnik LDSR
Abandoned or closed aerodrome — UDBINA
Heliport; elevation in ft AMSL — FIRULE 108FT
Oil or gas rig with helideck; elevation in ft AMSL — IVANA-A 112FT
Hard surface runway
Unpaved runway

Radio Navigation Aids

VOR — Compass rose oriented on the chart to Magnetic North (VAR 2019)
VOR/DME — Collocated VOR and DME radio navigation aids; DME
NDB — Non-directional radio beacon

Air Traffic Services

Flight Information Region (FIR)
Line of Responsibility (LoR) — from FL135 to FL660; from GND to FL135; from GND to FL125
Boundaries (international)
Control zone (CTR) — Designation of CTR, Airspace classification, Vertical limit, TWR Frequency
Aerodrome traffic zone (ATZ) — Designation, Airspace classification, Vertical limit — ATZ SINJ G 1000FT AGL GND
Terminal control area (TMA), airspace class. C,D
Terminal control area (TMA), airspace class. E — Designation, Airspace classification, Vertical limit, Frequency — TMA ZADAR D 7500FT MSL 1000FT AGL Radar 128.525

Prohibited, Restricted and Danger area — Active only as notified by NOTAM except Permanently active: LDP39;LDR49;LDD21 — Identification of area, Nationality letter, P=Prohibited, R=Restricted, D=Danger — Upper limit, Lower limit — LDR49 1000FT AGL GND

Temporary reserved and segregated area — From GND to 1000FT active only as notified by NOTAM. — Identification of area, Nationality letter, TR=Temporary reserved, TS=Temporary segregated — Upper limit, Lower limit — LDTR22 LDTS22 36100ft MSL GND

FLEXIBLE STRUCTURES
LD111 Flexible structures LD111 can be activated as D-AMA, TRA, TSA. can be publish as: LD111-AMA, LDTR111-AMA, LDTS111-AMA
See AIP, ENR 1.9.2.
For all Danger areas, TRAs and TSAs see AIP: ENR 5.1; 5.2

Low level military flight corridors and training areas — P-3
Special area for NATO operations

Reporting point — GIRDA
Holding fix with WGS-84 coordinates — W4
Entry/exit point — L2
Breakpoint description along Recommended VFR route — 45 22 00N 016 33 58E Sunja

Recommended VFR route — PANON2, ADRIA1, VELEB1
VFR recommended route in Bosnia and Herzegovina
VFR transit route in Slovenia
Mandatory (arrival - departure) VFR route
Paragliding and hang gliding activity zone — TRIBALJ 1000ft AGL GND
Parachute activity zone; Vertical limits — FL140 GND
Glider activity zone: Glider, paragliding and hang gliding activity zone — BARANJA 8000ft AMSL GND

Obstacles

Obstacles with a height of the order of 100 m AGL- lighted, Elevation on top in ft AMSL — 1044
Group of obstacles with a height of the order of 100 m AGL- lighted, Elevation on top in ft AMSL — 529
Obstacle - unlighted / lighted, Elevation on top in ft AMSL — 512, 2579
Obstacles having a height of the order of 100 m AGL- lighted, Elevation on top in ft AMSL (of doubtful accuracy) — 1315 ±
Obstacle - unlighted / lighted, Elevation on top in ft AMSL (of doubtful accuracy) — 457 ±
Obstacle with no elevation data
Group of wind turbines, lighted — 1913 ±, 2278

CONVERSION SCALE

ELEVATION TINTS

(m)	ft
(2800)	9187
(2400)	7874
(2000)	6562
(1600)	5250
(1200)	3937
(800)	2625
(400)	1313
(0)	0

KARST FIELDS

SIGNIFICANT VFR POINTS
(Reporting and Entry/Exit point)

Point	Latitude	Longitude	Point	Latitude	Longitude
A1	45 32 43N	018 17 09E	M1	45 07 31N	014 31 42E
A2	42 38 42N	017 56 51E	MAZEV	42 29 12N	018 18 07E
A3	43 40 49N	015 55 02E	N1	46 02 57N	016 05 04E
B1	45 39 31N	018 24 56E	N2	45 51 22N	015 48 22E
B2	42 30 25N	018 13 39E	N3	45 45 21N	016 00 45E
B3	43 44 32N	016 10 57E	N4	45 18 16N	014 42 50E
C1	45 34 42N	018 35 07E	N5	45 11 49N	013 44 52E
C2	42 23 48N	018 00 53E	N6	44 16 55N	015 20 51E
C3	43 23 25N	016 17 27E	O1	44 41 37N	014 23 36E
D1	45 31 28N	018 50 31E	O2	44 12 04N	015 40 57E
D2	42 18 18N	018 14 31E	O3	43 26 31N	016 41 49E
D3	43 11 04N	016 36 04E	P1	45 15 31N	014 35 45E
E1	45 12 37N	018 24 20E	P2	43 48 57N	015 40 05E
E2	45 42 23N	016 23 37E	P3	45 48 51N	015 49 58E
E3	45 04 49N	014 09 33E	P4	44 36 10N	014 29 55E
E4	44 05 11N	015 31 57E	R1	44 09 18N	015 02 04E
E5	42 27 09N	018 26 11E	RORKA	43 29 18N	016 23 31E
E6	44 57 18N	013 57 21E	S1	45 29 07N	015 59 31E
F1	45 17 28N	018 48 04E	S2	45 42 30N	016 06 34E
F2	42 32 59N	017 56 22E	S3	44 30 40N	014 18 26E
G1	45 25 22N	018 46 30E	S4	43 57 41N	015 23 54E
G2	43 23 46N	016 03 12E	S5	43 35 18N	015 55 28E
H1	45 07 36N	019 04 39E	S7	44 44 07N	013 53 47E
H2	44 27 44N	014 32 50E	S8	44 48 14N	013 59 51E
H3	43 22 57N	016 33 05E	T1	44 40 04N	014 34 24E
H4	45 42 50N	015 49 02E	U1	44 41 22N	014 16 46E
J1	44 51 20N	014 23 13E	USELU	45 29 39N	014 03 17E
K1	45 01 34N	014 34 32E	V1	44 18 07N	015 05 03E
K2	43 49 40N	015 18 04E	V2	43 09 39N	016 21 57E
K3	43 17 12N	016 52 25E	V3	44 34 33N	014 18 58E
K4	45 54 22N	016 07 32E	W1	45 40 19N	015 39 04E
L1	45 17 29N	014 16 33E	W2	44 04 22N	015 11 47E
L2	45 45 31N	015 54 03E	W3	43 44 03N	015 47 11E
L3	43 34 41N	016 12 56E	W4	44 59 38N	013 44 23E
L4	44 31 51N	014 28 15E	W5	44 57 34N	013 51 06E
			Z1	43 55 46N	015 48 08E

REPORTING POINTS

Point	Latitude	Longitude	Point	Latitude	Longitude
ABLAT	45 23 26N	013 37 34E	NETKO	43 02 30N	017 39 42E
AIOSA	41 55 42N	017 14 54E	NIKOL	44 13 19N	013 41 10E
ALIVO	45 31 24N	014 44 21E	NIVES	45 13 26N	015 54 27E
ARMIX	45 28 57N	014 16 04E	NOVLO	45 13 46N	016 57 11E
BABAG	45 23 13N	013 07 37E	OBUTI	46 22 42N	016 16 27E
BAREB	45 44 46N	018 24 48E	ORVAT	43 29 48N	017 12 56E
BEDOX	46 15 58N	015 49 34E	OSDUK	45 47 15N	018 08 01E
BEVIS	41 55 58N	018 11 40E	PEROT	45 24 02N	019 00 46E
BUGEV	45 27 56N	013 46 24E	PETOV	46 18 35N	015 58 34E
CRAYE	41 30 10N	018 07 45E	PEVON	43 33 31N	017 02 24E
DARZA	45 29 42N	015 00 26E	PODET	46 10 17N	015 37 36E
DEPET	44 40 44N	015 58 10E	RASTU	44 56 32N	015 44 36E
DEVUL	45 07 49N	016 26 28E	REMPI	43 44 12N	016 49 22E
GEMKA	45 28 13N	014 12 15E	ROLBA	45 50 25N	015 39 18E
GIRDA	45 28 32N	014 08 02E	ROTAR	45 15 46N	012 59 44E
GISAM	41 55 07N	017 45 31E	RUDIK	44 59 48N	016 18 18E
GORPA	45 46 23N	015 21 12E	SABAD	45 27 57N	014 52 03E
GUBOK	45 02 41N	017 51 42E	SIRMI	44 09 00N	016 18 13E
IBENI	44 00 51N	013 55 18E	SIVLA	45 06 07N	018 22 54E
KATTI	42 30 28N	016 02 56E	SONIK	44 26 54N	016 08 36E
KENEM	43 38 00N	016 56 48E	TEBLI	45 12 05N	016 40 33E
KOPRY	46 14 25N	016 57 46E	TEPKO	41 44 27N	018 25 41E
KOREX	44 46 16N	013 05 29E	TIBRI	42 24 38N	018 33 15E
LABIN	44 59 09N	013 05 29E	TORPO	43 33 51N	014 25 29E
LAPOV	45 00 15N	019 05 44E	TUVAR	45 07 36N	019 04 39E
LOKDI	41 29 42N	018 20 22E	UMBEK	45 32 40N	013 25 11E
LULUD	45 50 33N	015 41 00E	UNIPA	44 01 46N	016 28 58E
LURID	45 08 06N	017 23 58E	VAKSU	42 00 51N	018 31 37E
MADOS	42 36 09N	018 14 57E	VAPUP	43 03 21N	015 12 20E
MAGAM	45 58 22N	015 42 11E	VEBAL	45 59 29N	017 17 48E
MOKUN	42 27 01N	018 28 48E	VELIT	43 21 06N	017 16 38E
MONFA	45 29 14N	013 16 45E	VELUG	42 54 27N	015 26 15E
NEKIN	46 24 26N	016 42 12E	VIBOP	44 59 57N	018 43 39E
NEMEK	45 34 29N	015 17 53E	XAMIT	43 18 42N	014 47 52E
NERRA	42 54 19N	017 32 36E			

NOTE:
For entering CTR airspace
two-way radio communication required.
Contact Tower normally at reporting
points or any other point but not
later than 5 min prior to entering CTR.

Name	Ident	Frequency	Latitude	Longitude
VOR/DME				
BARNA	VBA	117.400MHz	45 44 52.08N	017 08 48.29E
DUBROVNIK	DBK	115.400MHz	42 33 13.84N	018 16 38.79E
LOŠINJ	NTL	117.350MHz	44 33 59.44N	014 23 27.79E
PULA	PUL	111.250MHz	44 53 32.52N	013 55 05.23E
RIJEKA	RJK	117.800MHz	45 13 26.84N	014 34 01.06E
SPLIT	SPL	115.700MHz	43 29 47.69N	016 18 17.00E
ZADAR	ZDA	108.600MHz	44 05 43.16N	015 21 51.22E
ZAGREB	ZAG	113.700MHz	45 53 44.01N	016 18 24.11E
NDB				
BREZA	BRZ	400KHz	45 25 25.14N	014 20 43.44E
CRES	CRE	433KHz	44 54 10.37N	014 24 59.57E
DRVENIK	DVN	418KHz	43 26 48.24N	016 08 37.08E
HUMAC	HUM	412KHz	43 17 13.88N	016 40 42.42E
KAKMA	ZRA	330KHz	43 59 49.76N	015 29 47.31E
KAVRAN	KAV	265KHz	44 53 43.27N	014 00 29.66E
KOLOČEP	KLP	318KHz	42 40 09.42N	018 01 15.07E
LOŠINJ	LOS	429KHz	44 31 37.55N	014 28 22.25E
OSIJEK	OSJ	422KHz	45 27 19.51N	018 50 15.39E
PISAROVINA	PIS	424KHz	45 36 18.10N	015 50 38.39E
PULA	PLA	351.5KHz	44 53 21.15N	013 45 12.66E
SALI	SAL	421KHz	43 56 16.30N	015 10 05.19E
TOUNJ	TNJ	316KHz	45 14 53.22N	015 21 01.25E
TROGIR	TRI	378KHz	43 29 48.59N	016 13 20.78E
VARAŽDIN	VAR	344KHz	46 18 39.09N	016 22 29.84E
VRSAR	VRS	369KHz	45 12 36.66N	013 38 56.31E
ZAGREB	ZAG	367KHz	45 54 00.95N	016 18 40.36E
DME				
BRAČ	BRC		43 16 56.93N	016 37 20.83E
DUBROVNIK	IDU		42 34 08.19N	018 15 07.96E
JAPETIĆ	JAP		45 44 40.18N	015 36 29.45E
LOŠINJ	LSJ		44 30 57.23N	014 29 27.66E
LUKAVEC	LUK		45 41 25.96N	015 59 32.90E
OSIJEK	KLS		45 27 58.26N	018 47 32.16E
OSIJEK	ISJ		45 27 51.96N	018 47 59.67E
SPLIT	IST		43 31 57.61N	016 17 20.86E
ZAGREB	IZA	109.5MHz	45 44 05.79N	016 03 12.42E
L				
BOKANJAC	BO	385KHz	44 10 09.29N	015 15 50.41E
CAVTAT	CV	397KHz	42 35 06.69N	018 12 45.50E
ČEPIN	CE	372KHz	45 31 42.33N	018 33 36.18E
GRUDA	GR	414KHz	42 32 26.26N	018 19 14.97E
KOZALA	KO	438KHz	45 20 04.69N	014 26 48.35E
PULA	GS	420KHz	44 53 32.88N	013 51 11.10E
RIJEKA	RI	289KHz	45 08 15.04N	014 39 10.56E
S.KRALJEVEC	SK	350KHz	45 48 20.96N	016 09 52.78E
VALTURA	VL	320KHz	44 53 34.30N	013 53 28.16E
VELIKA GORICA	VG	325KHz	45 43 31.30N	016 02 31.44E
ZADAR	ZK	348KHz	44 05 40.45N	015 21 54.26E

FLEXIBLE STRUCTURES

ATS AIRSPACE CLASSIFICATION WITHIN ZAGREB FIR

FL 205
FL 155
FL 135
FL 125
FL 115
9500ft MSL
7500ft MSL
TMA OSIJEK FL 115 1000 ft AGL D
FL 660 FL 115 CTA C
FL 115 1000 ft AGL CTA D
TMA ZAGREB FL 205 1000 ft AGL C
TMA PULA FL 135 7500 ft MSL C
TMA PULA 7500 ft MSL 1000 ft AGL D
TMA ZADAR FL 155 7500 ft MSL C
TMA ZADAR 7500 ft MSL 1000 ft AGL D
TMA SPLIT FL 205 7500 ft MSL C
TMA SPLIT 7500 ft MSL 1000 ft AGL D
TMA DUBROVNIK FL 205 7500 ft MSL C
TMA DUBROVNIK 7500 ft MSL 1000 ft AGL D
G
GND

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KILOMETERS 10 5 0 10 20 30 40 50 60 70 80 90 100 KM
NAUTICAL MILES 10 5 0 10 20 30 40 50 NM

Elevations in ft   COORDINATES EXPRESSED IN WGS 84