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AIRAC AIP SUP 011/2025

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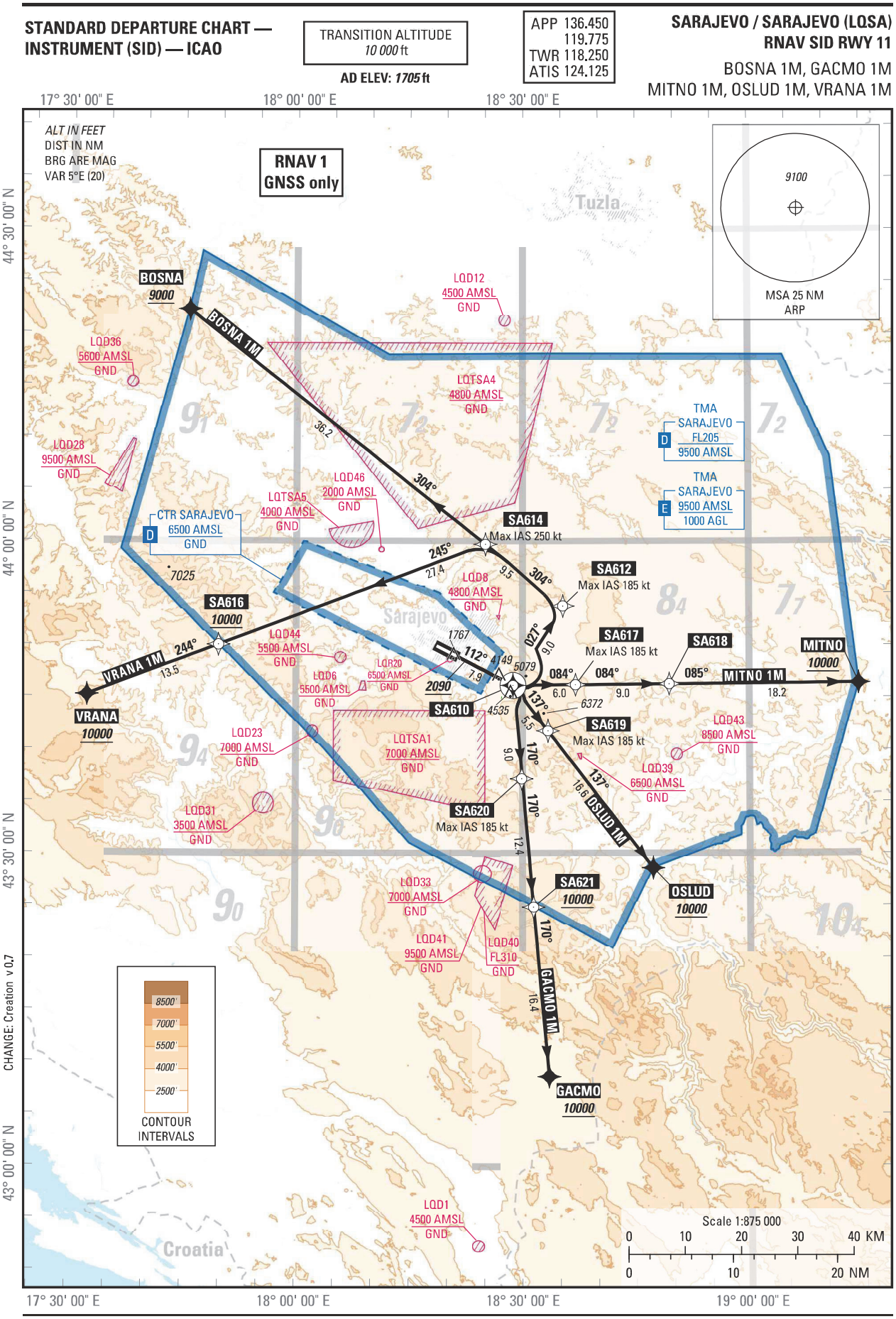
LQSA – Sarajevo International Airport
Trial PBN instrument flight procedures

With this AIRAC AIP SUP a trial PBN satellite based RNAV SIDs RWY 11 are available for testing purpose only at Sarajevo Airport. The satellite instrument flight procedure is GNSS based and contain SID flight procedures for RWY 11.

Trial PBN procedures are not intended for planning of operations. They are primarily published for flight validation and flyability check purpose with the aim of collecting and developing safety argumentation for PBN implementation in Bosnia and Herzegovina.


STANDARD DEPARTURE CHART — INSTRUMENT (SID) — ICAO
TRANSITION ALTITUDE 10 000 ft
AD ELEV: 1705 ft
APP 136.450
119.775
TWR 118.250
ATIS 124.125
SARAJEVO / SARAJEVO (LQSA)
RNAV SID RWY 11
BOSNA 1M, GACMO 1M
MITNO 1M, OSLUD 1M, VRANA 1M
17° 30' 00" E
18° 00' 00" E
18° 30' 00" E
19° 00' 00" E
44° 30' 00" N
44° 00' 00" N
43° 30' 00" N
43° 00' 00" N
ALT IN FEET
DIST IN NM
BRG ARE MAG
VAR 5°E (20)
RNAV 1
GNSS only
9100
MSA 25 NM
ARP
BOSNA
9000
BOSNA 1M
36.2
304°
LQD12
4500 AMSL
GND
LQD36
5600 AMSL
GND
LQD28
9500 AMSL
GND
LQTSA4
4800 AMSL
GND
LQD46
2000 AMSL
GND
LQTSA5
4000 AMSL
GND
CTR SARAJEVO
6500 AMSL
GND
TMA
SARAJEVO
FL205
9500 AMSL
TMA
SARAJEVO
9500 AMSL
1000 AGL
SA614
Max IAS 250 kt
245°
27.4
9.5
304°
SA612
Max IAS 185 kt
LQD8
4800 AMSL
GND
SA616
10000
VRANA 1M
244°
13.5
VRANA
10000
LQD44
5500 AMSL
GND
LQD6
5500 AMSL
GND
LQR20
6500 AMSL
GND
1767
112°
4149
5079
7.9
2090
027°
9.0
SA617
Max IAS 185 kt
SA618
MITNO
10000
084°
084°
085°
6.0
9.0
MITNO 1M
18.2
SA610
4535
137°
6372
5.5
SA619
Max IAS 185 kt
LQD43
8500 AMSL
GND
LQD23
7000 AMSL
GND
LQTSA1
7000 AMSL
GND
LQD39
6500 AMSL
GND
LQD31
3500 AMSL
GND
170°
9.0
137°
16.6
OSLUD 1M
SA620
Max IAS 185 kt
170°
12.4
SA621
10000
OSLUD
10000
LQD33
7000 AMSL
GND
LQD41
9500 AMSL
GND
LQD40
FL310
GND
170°
16.4
GACMO 1M
GACMO
10000
8500'
7000'
5500'
4000'
2500'
CONTOUR INTERVALS
LQD1
4500 AMSL
GND
Tuzla
Sarajevo
Croatia
Scale 1:875 000
0 10 20 30 40 KM
0 10 20 NM
CHANGE: Creation v 0.7

STANDARD DEPARTURE CHART — INSTRUMENT (SID) TEXT — ICAO

SARAJEVO/Sarajevo (LQSA)
RNAV RWY 11
BOSNA 1M VRANA 1M MITNO 1M OSLUD 1M GACMO 1M

DEPARTURE TEXTS

For all departures:
Disregarded close-in obstacles:
Trees (1761ft and 1767ft) 180m from DER and 112m right RWY axis

BOSNA 1M

Climb (1) to ***2090*** on course **112°M**, then to **SA610**.
At **SA610**, turn **left** to **SA612** (Max IAS **185kt**), then to **SA614** (Max IAS **250kt**), then to **BOSNA** at or above ***9000***.
(1) **PDG 9.3%** up to ***5900*** then **3.3%**

VRANA 1M

Climb (1) to ***2090*** on course **112°M**, then to **SA610**.
At **SA610**, turn **left** to **SA612** (Max IAS **185kt**), then to **SA614** (Max IAS **250kt**), then to **SA616** at or above ***10000***, then to **VRANA**.
(1) **PDG 9.3%** up to ***5900*** then **3.3%**

MITNO 1M

Climb (1) to ***2090*** on course **112°M**, then to **SA610**, then to **SA617** (Max IAS **185kt**), then to **SA618**, then to **MITNO** at or above ***10000***.
(1) **PDG 9.3%** up to ***5900*** then **3.3%**

OSLUD 1M

Climb (1) to ***2090*** on course **112°M**, then to **SA610**, then to **SA619** (Max IAS **185kt**), then to **OSLUD** at or above ***10000***.
(1) **PDG 9.3%** up to ***6500*** then **3.3%**

GACMO 1M

Climb (1) to ***2090*** on course **112°M**, then to **SA610**, then to **SA620** (Max IAS **185kt**), then to **SA621** at or above ***10000***, then to **GACMO**
(1) **PDG 9.3%** up to ***6500*** then **3.3%**

LQSA RNAV SID RWY 11

Proposed tabular description for navigation database coding

Seq N°	PT	WP ID	OverFly	TD	RMD VHF	THETA (°) magnetic	RHO Val	RHO uom	CRS Val (°)	CRS Type	DIST val NM	ALT DESC	ALT ONE FT	ALT TWO FT	SPD LMT KT	NAV PERF	Phase	Transition Identifier	Runway Direction	Magnetic CRS val(°)
BOSNA 1M																				
10	CA								112.343	MT		+	2090			1.000 NM	5	RW11	11	NotApplicable
20	CF	SA610	Y		KEB	167.780	9.950	NM	112.343	MT	7.904					1.000 NM	5	RW11	11	NotApplicable
30	TF	SA612	N						032.043	TT	9.000				185	1.000 NM	5	RW11	11	027.043
40	TF	SA614	N						308.744	TT	9.500				250	1.000 NM	5	RW11	11	303.744
50	TF	BOSNA	N						308.625	TT	36.240	+	9000			1.000 NM	5	RW11	11	303.625
GACMO 1M																				
10	CA								112.343	MT		+	2090			1.000 NM	5	RW11	11	NotApplicable
20	CF	SA610	Y		KEB	167.780	9.950	NM	112.343	MT	7.904					1.000 NM	5	RW11	11	NotApplicable
30	TF	SA620	N						174.693	TT	9.000	+	10000		185	1.000 NM	5	RW11	11	169.693
40	TF	SA621	N						174.706	TT	12.392	+	10000		185	1.000 NM	5	RW11	11	169.706
50	TF	GACMO	N						174.727	TT	16.354	+	10000			1.000 NM	5	RW11	11	169.727
MITNO 1M																				
10	CA								112.343	MT		+	2090			1.000 NM	5	RW11	11	NotApplicable
20	CF	SA610	Y		KEB	167.780	9.950	NM	112.343	MT	7.904					1.000 NM	5	RW11	11	NotApplicable
30	TF	SA617	N						089.320	TT	6.000				185	1.000 NM	5	RW11	11	084.320
40	TF	SA618	N						089.416	TT	9.000					1.000 NM	5	RW11	11	084.416
50	TF	MITNO	N						089.559	TT	18.174	+	10000			1.000 NM	5	RW11	11	084.559
OSLUD 1M																				
10	CA								112.343	MT		+	2090			1.000 NM	5	RW11	11	NotApplicable
20	CF	SA610	Y		KEB	167.780	9.950	NM	112.343	MT	7.904					1.000 NM	5	RW11	11	NotApplicable
30	TF	SA619	N						142.385	TT	5.500				185	1.000 NM	5	RW11	11	137.385
40	TF	OSLUD	N						142.438	TT	16.590	+	10000			1.000 NM	5	RW11	11	137.438
VRANA 1M																				
10	CA								112.343	MT		+	2090			1.000 NM	5	RW11	11	NotApplicable
20	CF	SA610	Y		KEB	167.780	9.950	NM	112.343	MT	7.904					1.000 NM	5	RW11	11	NotApplicable
30	TF	SA612	N						032.043	TT	9.000				185	1.000 NM	5	RW11	11	027.043
40	TF	SA614	N						308.744	TT	9.500				250	1.000 NM	5	RW11	11	303.744
50	TF	SA616	N						243.503	TT	27.351	+	10000			1.000 NM	5	RW11	11	244.503
60	TF	VRANA	N						243.093	TT	13.494	+	10000			1.000 NM	5	RW11	11	244.093

ADHP ICAO Identifier	W/P ID	W/P ICAO Code	W/P Type	Latitude	Longitude
LQ	BOSNA		ICAO	44°22'14.0000"N	017°45'35.0000"E
LQ	GACMO		ICAO	43°08'34.0000"N	018°33'29.0000"E
LQ	KIS		ICAO	44°01'05.7900"N	018°03'46.7900"E
LQ	KUTAK		ICAO	43°15'01.0000"N	018°32'37.0000"E
LQ	MITNO		ICAO	43°46'24.0000"N	019°14'30.0000"E
LQ	OSLUD		ICAO	43°28'38.0000"N	018°47'14.0000"E
LQ	PODOB		ICAO	43°31'54.0000"N	019°08'40.0000"E
LQ	RIVUS		ICAO	43°55'39.3000"N	018°03'17.5000"E
LQ	RUDAR		ICAO	43°38'55.0000"N	018°29'21.0000"E
LQ	RW11		ADHP	43°49'46.3700"N	018°19'05.6000"E
LQ	SA408		ADHP	43°53'17.3900"N	018°09'40.6110"E
LQ	SA409		ADHP	43°53'13.1650"N	018°09'51.4640"E
LQ	SA410		ADHP	43°50'13.9370"N	018°17'51.9710"E
LQ	SA411		ADHP	43°58'11.7410"N	018°18'38.2660"E
LQ	SA420		ADHP	44°01'11.7490"N	018°00'40.7960"E
LQ	SA422		ADHP	44°03'47.7010"N	017°50'20.1060"E
LQ	SA423		ADHP	43°58'19.5610"N	017°44'59.5300"E
LQ	SA424		ADHP	43°55'22.9050"N	017°42'07.4550"E
LQ	SA425		COORD	43°47'27.5590"N	018°09'58.0010"E
LQ	SA426		ADHP	43°24'55.5340"N	018°31'16.0540"E
LQ	SA610		ADHP	43°46'09.5530"N	018°28'42.9390"E
LQ	SA612		ADHP	43°53'47.1390"N	018°35'19.1760"E
LQ	SA614		ADHP	43°59'43.4500"N	018°25'03.2690"E
LQ	SA616		ADHP	43°50'03.2680"N	017°49'39.5310"E
LQ	SA617		ADHP	43°46'13.5250"N	018°36'59.7470"E
LQ	SA618		ADHP	43°46'18.3570"N	018°49'24.9900"E
LQ	SA619		ADHP	43°41'48.0260"N	018°33'20.5760"E
LQ	SA620		COORD	43°37'11.7960"N	018°29'51.7030"E
LQ	SA621		COORD	43°24'51.3180"N	018°31'25.8290"E
LQ	TIMID		ICAO	44°03'58.9800"N	018°14'32.1400"E
LQ	VEBAR		ICAO	44°08'12.0000"N	019°10'49.0000"E
LQ	VRANA		ICAO	43°45'13.0000"N	017°32'16.0000"E

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