

INSTRUMENT APPROACH  
CHART-ICAO

**AD ELEV 353**  
**HEIGHTS RELATED**  
**TO THR 22 ELEV 348**

ZAGREB ATIS	124.575
ZAGREB RADAR	118.885
ZAGREB RADAR	120.700 State, not 8.33 capable
ZAGREB TOWER	118.300

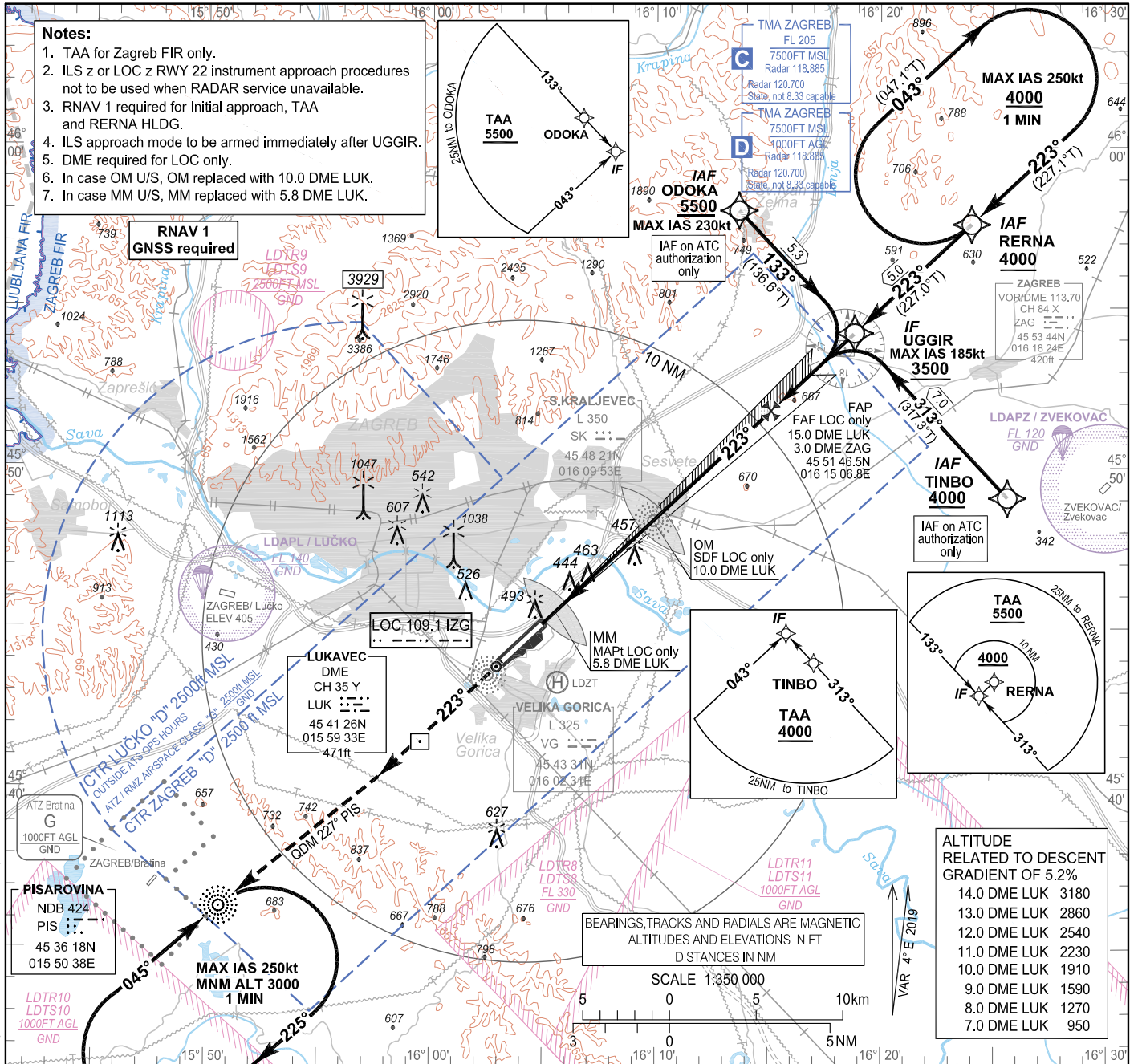
**ZAGREB / Franjo Tuđman (LDZA)**

ILS z or LOC z RWY 22  
(RNAV 1 to ILS or LOC transition)

**Notes:**

1. TAA for Zagreb FIR only.
2. ILS z or LOC z RWY 22 instrument approach procedures not to be used when RADAR service unavailable.
3. RNAV 1 required for Initial approach, TAA and RERNA HLDG.
4. ILS approach mode to be armed immediately after UGGIR.
5. DME required for LOC only.
6. In case OM U/S, OM replaced with 10.0 DME LUK.
7. In case MM U/S, MM replaced with 5.8 DME LUK.

**RNAV 1**  
**GNSS required**

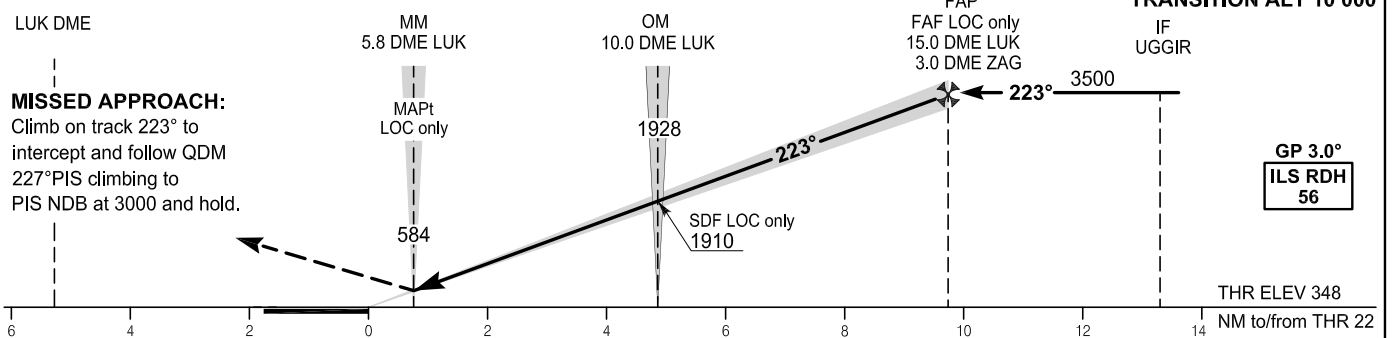


**ALTITUDE RELATED TO DESCENT GRADIENT OF 5.2%**

14.0 DME LUK	3180
13.0 DME LUK	2860
12.0 DME LUK	2540
11.0 DME LUK	2230
10.0 DME LUK	1910
9.0 DME LUK	1590
8.0 DME LUK	1270
7.0 DME LUK	950

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

SCALE 1:350 000



**MISSED APPROACH:**  
Climb on track 223° to intercept and follow QDM 227°PIS climbing to PIS NDB at 3000 and hold.

OCA(H)		A	B	C	D
Straight-in Approach	ILS CAT I press. altim.	496 (148)	506 (158)	516 (168)	529 (181)
	LOC only	730(380)			
Circling		790 (440)	850 (500)	950 (600)	1050 (700)

GS (kt)	70	90	100	120	140	160	180
Rate of descent (ft / min)	372	478	531	637	743	850	956

Circling for ACFT CAT B, C and D NW of the aerodrome not allowed

Change: ZAGREB RADAR frequency; Parachuting zones updated; Notes updated; PBN box added; Heliport LDZT added; Editorial.

## ZAGREB / Franjo Tuđman (LDZA)

ILS z or LOC z RWY 22

(RNAV 1 to ILS or LOC transition)

## LDZA ILS z or LOC z RWY 22 (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	ODOKA	-	-	4°E	-	-	+5500	-230	-	IAF on ATC authorization only	RNAV 1
020	IF	TF	UGGIR	-	133° (136.6°T)	4°E	5.3	-	+3500	-185	-	-	
010	IAF	IF	RERNA	-	-	4°E	-	-	+4000	-	-	-	RNAV 1
020	IF	TF	UGGIR	-	223° (227.0°T)	4°E	5.0	-	+3500	-185	-	-	
010	IAF	IF	TINBO	-	-	4°E	-	-	+4000	-	-	IAF on ATC authorization only	RNAV 1
020	IF	TF	UGGIR	-	313° (317.3°T)	4°E	7.0	-	+3500	-185	-	-	

## AERONAUTICAL DATABASE REQUIREMENTS

## Conventional procedure essential fixes/points

## ILS z or LOC z RWY 22

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 (UGGIR)	45 54 12.2N 016 18 50.0E	-	-
FAF LOC only	45 51 46.5N 016 15 06.8E	226.81° (IZG LOC)	15.02 DME LUK 3.02 DME ZAG
SDF LOC only (OM 22)	45 48 20.56N 016 09 52.34E	226.81° (IZG LOC)	10.00 DME LUK
MAPt LOC only (MM 22)	45 45 29.91N 016 05 31.84E	226.81° (IZG LOC)	5.84 DME LUK

## 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
RERNA	HM	223° (227.1°T)	1 MIN / -	R	4000	-	250	4°E	-	RNAV 1

## Waypoint coordinates

Waypoint name	WGS-84 latitude	WGS-84 longitude
ODOKA	455801.1N	0161340.1E
RERNA	455735.6N	0162402.7E
TINBO	454903.8N	0162538.1E
UGGIR	455412.2N	0161850.0E

Change: ZAGREB RADAR frequency; Parachuting zones updated; Notes updated; PBN box added; Heliport LDZT added; Editorial.