REPUBLIC OF CROATIA

Phone: +385 1 6259 373
+385 1 6259 589
+385 1 6259 372
Fax: +385 1 6259 374
AFS: LDZAYOYX
Email: aip@crocontrol.hr
URL: https://www.crocontrol.hr

CROATIA CONTROL

Croatia Control Ltd.
AIM/AIS Service
Rudolfa Fizira 2
10410 Velika Gorica, PO Box 103
Croatia

AIRAC AIP AMDT 005/2023
Effective Date: 15 JUN 2023
Publication Date: 04 MAY 2023

1. Amendment contents:

GEN

- GEN 0.2 - Record of AIP amendments - updated
- GEN 0.4 - Checklist of AIP pages - updated
- GEN 0.5 - List of hand amendments to the AIP - updated
- GEN 2.5 - List of radio navigation aids - GS L and VL Lwithdrawn
- GEN 3.5.1 - Meteorological services - regulation on service provision added
- GEN 4.1.4 - PAX service charge for LDZA AD - changed

ENR

- ENR 1.1.12 - Title and content of subsection - changed
- ENR 6 - New charts:
  - Radio facility - Index Chart (ENR 6.8 -1/2)

AD

- LDDU, LDPL, LDRI, LDSP, LDZA and LDZD AD 2.7 - title and table layout harmonized with CIR (EU) 2022/938 and other changes
- LDOS, LDPL, LDSB, LDZA and LDZD AD 2.12 - various changes
- LDDU AD - New chart
  - Aircraft Parking/Docking Chart (LDDU AD 2.24.2 APDC -1/2)
- LDLO AD - New chart
  - Visual Operation Chart (LDLO AD 2.24.13 VOC -1/2)
- LDPL AD 2.3, 2.5, 2.6, 2.16, 2.19 and 2.24 - various changes
- LDPL AD - charts:
  - Instrument Approach Chart - ICAO IAC L RWY 09 (LDPL AD 2.24.12 IAC L RWY 09 -1/2) - withdrawn
  - Instrument Approach Chart - ICAO IAC NDB RWY 27 (LDPL AD 2.24.12 IAC NDB -1/2) - withdrawn
  - Standard Departure Chart - Instrument - ICAO RWY 09 (LDPL AD 2.24.8 SID RWY 09 -1/2)
  - Standard Departure Chart - Instrument - ICAO RNAV RWY 09 (LDPL AD 2.24.8 SID RNAV RWY 09 -1/4)
  - Standard Departure Chart - Instrument - ICAO RWY 27 (LDPL AD 2.24.8 SID RWY 27 -1)
  - Standard Departure Chart - Instrument - ICAO RNAV RWY 27 (LDPL AD 2.24.8 SID RNAV RWY 27 -1/4)
  - Standard Arrival Chart - Instrument - ICAO RWY 09 (LDPL AD 2.24.10 STAR RWY 09 -1/2)
  - Standard Arrival Chart - Instrument - ICAO RWY 27 (LDPL AD 2.24.10 STAR RWY 27 -1/2)
  - Standard Arrival Chart - Instrument - ICAO RNAV RWY 09 (LDPL AD 2.24.10 STAR RNAV RWY 09 -1/4)
  - Standard Arrival Chart - Instrument - ICAO RNAV RWY 27 (LDPL AD 2.24.10 STAR RNAV RWY 27 -1/4)
  - ATC Surveillance Minimum Altitude Chart - ICAO (LDPL AD 2.24.11 ATCSMAC -1/2)
  - Instrument Approach Chart - ICAO VOR RWY 09 (LDPL AD 2.24.12 IAC VOR RWY 09 -1/2)
  - Instrument Approach Chart - ICAO VOR RWY 27 (LDPL AD 2.24.12 IAC VOR RWY 27 -1/2)
  - Instrument Approach Chart - ICAO ILS y or LOC y RWY 27 (LDPL AD 2.24.12 IAC ILS y or LOC y RWY 27 -1/2)
  - Instrument Approach Chart - ICAO ILS z or LOC z RWY 27 (LDPL AD 2.24.12 IAC ILS z or LOC z RWY 27 -1/2)
  - Instrument Approach Chart - ICAO RNP RWY 27 (LDPL AD 2.24.12 IAC RNP RWY 27 - 1/4)
  - Visual Operation Chart (LDPL AD 2.24.13 VOC -1/2)
- LDSP AD 2.9 - editorial changes

- LDZD AD - New chart:
  - ATC Surveillance Minimum Altitude Chart - ICAO (LDZD AD 2.24.11 ATCSMAC -1/2)

2. Hand corrections to the following pages:

- See GEN 0.5

3. Record entry of AMDT in GEN 0.2

4. This AIP amendment incorporates information contained in the following publications:

NOTAM: A0625/23
NOTAM incorporated in this amendment will be cancelled by NOTAMC

SUP: NIL

AIC: NIL

5. Remove / insert the pages as shown in list on the next page:

Insert the following pages:

GEN 0.2 - 3/4 30 DEC 2021 / 15 JUN 2023
GEN 0.4 - 1/2 15 JUN 2023 / 15 JUN 2023
GEN 0.4 - 3/4 15 JUN 2023 / 15 JUN 2023
GEN 0.4 - 5/6 15 JUN 2023 / 15 JUN 2023
GEN 0.4 - 7/8 15 JUN 2023 / 15 JUN 2023
GEN 0.5 - 1/2 15 JUN 2023 / 15 JUN 2023
GEN 2.5 - 1/2 15 JUN 2023 / 15 JUN 2023
GEN 3.5 - 1/2 15 JUN 2023 / 02 DEC 2021
GEN 4.1 - 19/20 15 JUN 2023 / 18 JUL 2019
ENR 1.1 - 7/8 15 JUN 2023 / 15 JUN 2023
ENR 6.8 - 1/2 15 JUN 2023 / 15 JUN 2023
LDDU AD 2 - 3/4 18 MAY 2023 / 15 JUN 2023
LDDU AD 2.24.2 APDC - 1/2 15 JUN 2023 / 15 JUN 2023
LDLO AD 2.24.13 VOC - 1/2 15 JUN 2023 / 15 JUN 2023
LDOS AD 2 - 5/6 29 DEC 2022 / 15 JUN 2023
LDOS AD 2 - 7/8 15 JUN 2023 / 27 JAN 2022
LDPL AD 2 - 1/2 10 OCT 2019 / 15 JUN 2023
LDPL AD 2 - 3/4 15 JUN 2023 / 15 JUN 2023
LDPL AD 2 - 7/8 15 JUN 2023 / 03 NOV 2022
LDPL AD 2 - 9/10 15 JUN 2023 / 15 JUN 2023
LDPL AD 2 - 11/12 15 JUN 2023 / 18 MAY 2023
LDPL AD 2 - 17/18 15 JUN 2023 / 23 APR 2020
LDPL AD 2.24.8 SID RWY09 - 1/2 15 JUN 2023 / 15 JUN 2023
LDPL AD 2.24.8 SID RNAV RWY09 - 1/2 15 JUN 2023 / 15 JUN 2023
LDPL AD 2.24.8 SID RNAV RWY09 - 3/4 15 JUN 2023 / 15 JUN 2023
LDPL AD 2.24.8 SID RWY27 - 1/2 15 JUN 2023 / 15 JUN 2023
LDPL AD 2.24.8 SID RNAV RWY27 - 1/2 15 JUN 2023 / 15 JUN 2023
LDPL AD 2.24.8 SID RNAV RWY27 - 3/4 15 JUN 2023 / 15 JUN 2023
LDPL AD 2.2410 STAR RWY09 - 1/2 15 JUN 2023 / 15 JUN 2023
LDPL AD 2.24.10 STAR RWY 27 - 1/2 15 JUN 2023 / 15 JUN 2023
LDPL AD 2.24.10 STAR RNAV RWY09 - 1/2 15 JUN 2023 / 15 JUN 2023
LDPL AD 2.24.10 STAR RNAV RWY09 - 3/4 15 JUN 2023 / 15 JUN 2023
LDPL AD 2.24.10 STAR RNAV RWY27 - 1/2 15 JUN 2023 / 15 JUN 2023
LDPL AD 2.24.10 STAR RNAV RWY27 - 3/4 15 JUN 2023 / 15 JUN 2023
LDPL AD 2.24.11 ATCSMAC - 1/2 15 JUN 2023 / 15 JUN 2023
NIL
LDPL AD 2.24.12 IAC VOR RWY09 - 1/2 15 JUN 2023 / 15 JUN 2023
NIL

LDPL AD 2.24.12 IAC VOR RWY27 - 1/2 15 JUN 2023 / 15 JUN 2023
LDPL AD 2.24 IAC ILS y or LOC y RWY 27 - 1/2 15 JUN 2023 / 15 JUN 2023
LDPL AD 2.24.12 IAC ILS z or LOC z RWY 27 - 1/2 15 JUN 2023 / 15 JUN 2023
LDPL AD 2.24.12 IAC RNP RWY 27 - 1/2 15 JUN 2023 / 15 JUN 2023
LDPL AD 2.24.12 IAC RNP RWY 27 - 3/4 15 JUN 2023 / 15 JUN 2023
LDPL AD 2.24.13 VOC - 1/2 15 JUN 2023 / 15 JUN 2023
LDRI AD 2 - 3/4 15 JUN 2023 / 02 DEC 2021
LDSB AD 2 - 5/6 02 DEC 2021 / 15 JUN 2023
LDSP AD 2 - 3/4 15 JUN 2023 / 15 JUN 2023
LDZA AD 2 - 3/4 15 JUN 2023 / 15 JUN 2023
LDZA AD 2 - 7/8 15 JUN 2023 / 03 NOV 2022
LDZD AD 2 - 3/4 15 JUN 2023 / 08 SEP 2022
LDZD AD 2 - 7/8 15 JUN 2023 / 15 JUN 2023
LDZD AD 2.24.11 ATCSMAC - 1/2 15 JUN 2023 / 15 JUN 2023

Remove the following pages:

GEN 0.2 - 3/4 30 DEC 2021 / 18 MAY 2023
GEN 0.4 - 1/2 18 MAY 2023 / 18 MAY 2023
GEN 0.4 - 3/4 18 MAY 2023 / 18 MAY 2023
GEN 0.4 - 5/6 18 MAY 2023 / 18 MAY 2023
GEN 0.4 - 7/8 18 MAY 2023 / 18 MAY 2023
GEN 0.5 - 1/2 18 MAY 2023 / 18 MAY 2023
GEN 2.5 - 1/2 20 APR 2023 / 20 APR 2023
GEN 3.5 - 1/2 02 DEC 2021 / 02 DEC 2021
GEN 4.1 - 19/20 17 JUN 2021 / 18 JUL 2019
ENR 1.1 - 7/8 22 APR 2021 / 22 APR 2021
ENR 6.8 - 1/2 18 MAY 2023 / 18 MAY 2023
LDDU AD 2 - 3/4 18 MAY 2023 / 09 SEP 2021
LDDU AD 2.24.2 APDC - 1/2 28 MAR 2019 / 28 MAR 2019
LDLO AD 2.24.13 VOC - 1/2 17 JUN 2021 / 17 JUN 2021
LDOS AD 2 - 5/6 29 DEC 2022 / 03 NOV 2022
LDOS AD 2 - 7/8 03 NOV 2022 / 27 JAN 2022
LDPL AD 2 - 1/2 10 OCT 2019 / 21 MAY 2020
LDPL AD 2 - 3/4 30 DEC 2021 / 26 APR 2018
LDPL AD 2 - 7/8 03 NOV 2022 / 03 NOV 2022
LDPL AD 2 - 9/10 20 MAY 2021 / 20 MAY 2021
LDPL AD 2 - 11/12 18 MAY 2023 / 18 MAY 2023
LDPL AD 2 - 17/18 06 OCT 2022 / 23 APR 2020
LDPL AD 2.24.8 SID RWY09 - 1/2 24 FEB 2022 / 24 FEB 2022
LDPL AD 2.24.8 SID RNAV RWY09 - 1/2 24 FEB 2022 / 24 FEB 2022
LDPL AD 2.24.8 SID RNAV RWY09 - 3/4 24 FEB 2022 / 24 FEB 2022
LDPL AD 2.24.8 SID RWY27 - 1/2 24 FEB 2022 / 24 FEB 2022
LDPL AD 2.24.8 SID RNAV RWY27 - 1/2 24 FEB 2022 / 24 FEB 2022
LDPL AD 2.24.8 SID RNAV RWY27 - 3/4 24 FEB 2022 / 24 FEB 2022
LDPL AD 2.2410 STAR RWY09 - 1/2 24 FEB 2022 / 24 FEB 2022
LDPL AD 2.24.10 STAR RWY 27 - 1/2 24 FEB 2022 / 24 FEB 2022
LDPL AD 2.24.10 STAR RNAV RWY09 - 1/2 11 AUG 2022 / 11 AUG 2022
LDPL AD 2.24.10 STAR RNAV RWY09 - 3/4 11 AUG 2022 / 11 AUG 2022
LDPL AD 2.24.10 STAR RNAV RWY27 - 1/2 11 AUG 2022 / 11 AUG 2022
LDPL AD 2.24.10 STAR RNAV RWY27 - 3/4 11 AUG 2022 / 11 AUG 2022
LDPL AD 2.24.11 ATCSMAC - 1/2 24 FEB 2022 / 24 FEB 2022
LDPL AD 2.24.12 IAC L RWY09 - 1/2 24 FEB 2022 / 24 FEB 2022
LDPL AD 2.24.12 IAC VOR RWY09 - 1/2 24 FEB 2022 / 24 FEB 2022
LDPL AD 2.24.12 IAC NDB RWY27 - 1/2 06 OCT 2022 / 06 OCT 2022
LDPL AD 2.24.12 IAC VOR RWY27 - 1/2 06 OCT 2022 / 06 OCT 2022
LDPL AD 2.24 IAC ILS y or LOC y RWY27 - 1/2 19 MAY 2022 / 19 MAY 2022
LDPL AD 2.24.12 IAC ILS z or LOC z RWY27 - 1/2 11 AUG 2022 / 11 AUG 2022
LDPL AD 2.24.12 IAC RNP RWY 27 - 1/2 11 AUG 2022 / 11 AUG 2022
LDPL AD 2.24.12 IAC RNP RWY 27 - 3/4 11 AUG 2022 / 11 AUG 2022
LDPL AD 2.24.13 VOC - 1/2 11 AUG 2022 / 11 AUG 2022
LDRI AD 2 - 3/4 18 MAY 2023 / 02 DEC 2021
LDSB AD 2 - 5/6 02 DEC 2021 / 03 NOV 2022
LDSP AD 2 - 3/4 19 MAY 2022 / 25 MAR 2021
LDZA AD 2 - 3/4 18 MAY 2023 / 31 DEC 2020
LDZA AD 2 - 7/8 02 DEC 2021 / 03 NOV 2022
LDZD AD 2 - 3/4 24 FEB 2022 / 08 SEP 2022
LDZD AD 2 - 7/8 03 NOV 2022 / 03 NOV 2022
LDZD AD 2.24.11 ATCSMAC - 1/2 16 JUN 2022 / 16 JUN 2022

AIRAC AIP AMENDMENT			
NR/Year	*Publication date*	*Effective date*	*Inserted by*
010/2018	27-Sep-2018	08-Nov-2018	
011/2018	25-Oct-2018	06-Dec-2018	
012/2018	22-Nov-2018	03-Jan-2019	
013/2018	20-Dec-2018	31-Jan-2019	
001/2019	17-Jan-2019	28-Feb-2019	
002/2019	14-Feb-2019	28-Mar-2019	
003/2019	14-Mar-2019	25-Apr-2019	
004/2019	11-Apr-2019	23-May-2019	
005/2019	09-May-2019	20-Jun-2019	
006/2019	06-Jun-2019	18-Jul-2019	
007/2019	01-Aug-2019	12-Sep-2019	
008/2019	29-Aug-2019	10-Oct-2019	
009/2019	26-Sep-2019	07-Nov-2019	
010/2019	24-Oct-2019	05-Dec-2019	
011/2019	19-Dec-2019	30-Jan-2020	
001/2020	16-Jan-2020	27-Feb-2020	
002/2020	13-Feb-2020	26-Mar-2020	
003/2020	12-Mar-2020	23-Apr-2020	
004/2020	09-Apr-2020	21-May-2020	
005/2020	07-May-2020	18-Jun-2020	
006/2020	04-Jun-2020	16-Jul-2020	
007/2020	02-Jul-2020	13-Aug-2020	
008/2020	30-Jul-2020	10-Sep-2020	
009/2020	24-Sep-2020	05-Nov-2020	
010/2020	22-Oct-2020	03-Dec-2020	
011/2020	19-Nov-2020	31-Dec-2020	
012/2020	17-Dec-2020	28-Jan-2021	
001/2021	14-Jan-2021	25-Feb-2021	
002/2021	11-Feb-2021	25-Mar-2021	
003/2021	11-Mar-2021	22-Apr-2021	
004/2021	08-Apr-2021	20-May-2021	
005/2021	06-May-2021	17-Jun-2021	
006/2021	02-Jun-2021	15-Jul-2021	
007/2021	01-Jul-2021	12-Aug-2021	
008/2021	29-Jul-2021	09-Sep-2021	
009/2021	26-Aug-2021	07-Oct-2021	
010/2021	23-Sep-2021	04-Nov-2021	
011/2021	21-Oct-2021	02-Dec-2021	
012/2021	17-Nov-2021	30-Dec-2021	

AIRAC AIP AMENDMENT			
NR/Year	*Publication date*	*Effective date*	*Inserted by*
013/2021	16-Dec-2021	27-Jan-2022	
001/2022	13-Jan-2022	24-Feb-2022	
002/2022	10-Feb-2022	24-Mar-2022	
003/2022	10-Mar-2022	21-Apr-2022	
004/2022	07-Apr-2022	19-May-2022	
005/2022	05-May-2022	16-Jun-2022	
006/2022	02-Jun-2022	14-Jul-2022	
007/2022	30-Jun-2022	11-Aug-2022	
008/2022	28-Jul-2022	08-Sep-2022	
009/2022	25-Aug-2022	06-Oct-2022	
010/2022	22-Sep-2022	03-Nov-2022	
011/2022	20-Oct-2022	01-Dec-2022	
012/2022	17-Nov-2022	29-Dec-2022	
013/2022	15-Dec-2022	26-Jan-2023	
001/2023	12-Jan-2023	23-Feb-2023	
002/2023	09-Feb-2023	23-Mar-2023	
003/2023	09-Mar-2023	20-Apr-2023	
004/2023	06-Apr-2023	18-May-2023	
005/2023	04-May-2023	15-Jun-2023	

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GEN 0.4 CHECKLIST OF AIP PAGES

PART 1 - GENERAL (GEN)

Page	Date
GEN 0.1 - 1	23 MAR 2023
GEN 0.1 - 2	23 MAR 2023
GEN 0.1 - 3	23 MAR 2023
GEN 0.1 - 4	23 MAR 2023
GEN 0.2 - 1	20 JUL 2017
GEN 0.2 - 2	11 OCT 2018
GEN 0.2 - 3	30 DEC 2021
GEN 0.2 - 4	15 JUN 2023
GEN 0.2 - 5	27 JAN 2022
GEN 0.2 - 6	27 JAN 2022
GEN 0.3 - 1	18 MAY 2023
GEN 0.3 - 2	01 FEB 2018
GEN 0.4 - 1	15 JUN 2023
GEN 0.4 - 2	15 JUN 2023
GEN 0.4 - 3	15 JUN 2023
GEN 0.4 - 4	15 JUN 2023
GEN 0.4 - 5	15 JUN 2023
GEN 0.4 - 6	15 JUN 2023
GEN 0.4 - 7	15 JUN 2023
GEN 0.4 - 8	15 JUN 2023
GEN 0.5 - 1	15 JUN 2023
GEN 0.5 - 2	15 JUN 2023
GEN 0.6 - 1	23 MAR 2023
GEN 0.6 - 2	23 MAR 2023
GEN 0.6 - 3	23 MAR 2023
GEN 0.6 - 4	23 MAR 2023
GEN 1.1 - 1	15 JUL 2021
GEN 1.1 - 2	15 JUL 2021
GEN 1.1 - 3	15 JUL 2021
GEN 1.1 - 4	26 JAN 2023
GEN 1.1 - 5	26 JAN 2023
GEN 1.1 - 6	26 JAN 2023
GEN 1.2 - 1	23 MAR 2023
GEN 1.2 - 2	30 DEC 2021
GEN 1.2 - 3	18 MAY 2023
GEN 1.2 - 4	18 MAY 2023
GEN 1.2 - 5	18 MAY 2023
GEN 1.2 - 6	18 MAY 2023
GEN 1.2 - 7	18 MAY 2023
GEN 1.2 - 8	18 MAY 2023
GEN 1.2 - 9	30 DEC 2021
GEN 1.2 - 10	21 JUL 2017
GEN 1.2 - 11	30 DEC 2021
GEN 1.2 - 12	24 JUL 2014
GEN 1.3 - 1	12 DEC 2013
GEN 1.3 - 2	12 DEC 2013
GEN 1.3 - 3	18 MAY 2023
GEN 1.3 - 4	18 MAY 2023
GEN 1.3 - 5	18 MAY 2023
GEN 1.3 - 6	18 MAY 2023
GEN 1.3 - 7	18 MAY 2023
GEN 1.3 - 8	18 MAY 2023
GEN 1.3 - 9	18 MAY 2023
GEN 1.3 - 10	18 MAY 2023
GEN 1.4 - 1	23 MAR 2023
GEN 1.4 - 2	23 MAR 2023
GEN 1.5 - 1	15 JUL 2021
GEN 1.5 - 2	15 JUL 2021
GEN 1.5 - 3	30 DEC 2021
GEN 1.5 - 4	30 APR 2015
GEN 1.6 - 1	15 JUL 2021
GEN 1.6 - 2	15 JUL 2021

Page	Date
GEN 1.7 - 1	12 OCT 2017
GEN 1.7 - 2	12 AUG 2021
GEN 1.7 - 3	20 APR 2023
GEN 1.7 - 4	12 AUG 2021
GEN 1.7 - 5	12 AUG 2021
GEN 1.7 - 6	12 AUG 2021
GEN 1.7 - 7	12 AUG 2021
GEN 1.7 - 8	12 AUG 2021
GEN 1.7 - 9	12 AUG 2021
GEN 1.7 - 10	12 AUG 2021
GEN 1.7 - 11	12 AUG 2021
GEN 1.7 - 12	12 AUG 2021
GEN 1.7 - 13	12 AUG 2021
GEN 1.7 - 14	07 OCT 2021
GEN 1.7 - 15	07 OCT 2021
GEN 1.7 - 16	29 DEC 2022
GEN 1.7 - 17	29 DEC 2022
GEN 1.7 - 18	29 DEC 2022
GEN 1.7 - 19	18 MAY 2023
GEN 1.7 - 20	18 MAY 2023
GEN 1.7 - 21	18 MAY 2023
GEN 1.7 - 22	29 DEC 2022
GEN 2.1 - 1	23 MAR 2023
GEN 2.1 - 2	08 SEP 2022
GEN 2.1 - 3	08 SEP 2022
GEN 2.1 - 4	23 MAR 2023
GEN 2.2 - 1	03 DEC 2020
GEN 2.2 - 2	03 DEC 2020
GEN 2.2 - 3	10 SEP 2020
GEN 2.2 - 4	24 FEB 2022
GEN 2.2 - 5	24 FEB 2022
GEN 2.2 - 6	24 FEB 2022
GEN 2.2 - 7	24 FEB 2022
GEN 2.2 - 8	24 FEB 2022
GEN 2.2 - 9	24 FEB 2022
GEN 2.2 - 10	24 FEB 2022
GEN 2.2 - 11	24 FEB 2022
GEN 2.2 - 12	24 FEB 2022
GEN 2.3 - 1	01 FEB 2018
GEN 2.3 - 2	01 FEB 2018
GEN 2.3 - 3	01 FEB 2018
GEN 2.3 - 4	01 FEB 2018
GEN 2.3 - 5	01 FEB 2018
GEN 2.3 - 6	01 FEB 2018
GEN 2.3 - 7	01 FEB 2018
GEN 2.3 - 8	01 FEB 2018
GEN 2.3 - 9	04 NOV 2021
GEN 2.3 - 10	01 FEB 2018
GEN 2.3 - 11	01 FEB 2018
GEN 2.3 - 12	01 FEB 2018
GEN 2.3 - 13	01 FEB 2018
GEN 2.3 - 14	01 FEB 2018
GEN 2.4 - 1	16 JUN 2022
GEN 2.4 - 2	26 JAN 2023
GEN 2.5 - 1	15 JUN 2023
GEN 2.5 - 2	15 JUN 2023
GEN 2.6 - 1	13 SEP 2018
GEN 2.6 - 2	08 MAR 2012
GEN 2.6 - 3	08 MAR 2012
GEN 2.6 - 4	08 MAR 2012
GEN 2.7 - 1	23 FEB 2023
GEN 2.7 - 2	23 FEB 2023
GEN 2.7 - 3	23 FEB 2023
GEN 2.7 - 4	23 FEB 2023
GEN 2.7 - 5	23 FEB 2023
GEN 2.7 - 6	23 FEB 2023
GEN 2.7 - 7	23 FEB 2023
GEN 2.7 - 8	23 FEB 2023
GEN 2.7 - 9	23 FEB 2023
GEN 2.7 - 10	23 FEB 2023
GEN 2.7 - 11	23 FEB 2023

Page	Date
GEN 2.7 - 12	23 FEB 2023
GEN 2.7 - 13	23 FEB 2023
GEN 2.7 - 14	23 FEB 2023
GEN 3.1 - 1	01 DEC 2022
GEN 3.1 - 2	01 DEC 2022
GEN 3.1 - 3	23 MAR 2023
GEN 3.1 - 4	23 MAR 2023
GEN 3.1 - 5	01 DEC 2022
GEN 3.1 - 6	23 MAR 2023
GEN 3.2 - 1	08 SEP 2022
GEN 3.2 - 2	08 SEP 2022
GEN 3.2 - 3	08 SEP 2022
GEN 3.2 - 4	23 MAR 2023
GEN 3.3 - 1	27 JAN 2022
GEN 3.3 - 2	29 DEC 2022
GEN 3.3 - 3	24 MAR 2022
GEN 3.3 - 4	08 MAR 2012
GEN 3.4 - 1	23 MAR 2023
GEN 3.4 - 2	06 OCT 2022
GEN 3.4 - 3	08 MAR 2012
GEN 3.4 - 4	23 MAR 2023
GEN 3.4 - 5	23 MAR 2023
GEN 3.4 - 6	08 MAR 2012
GEN 3.5 - 1	15 JUN 2023
GEN 3.5 - 2	02 DEC 2021
GEN 3.5 - 3	02 DEC 2021
GEN 3.5 - 4	06 OCT 2022
GEN 3.5 - 5	30 DEC 2021
GEN 3.5 - 6	30 DEC 2021
GEN 3.5 - 7	12 AUG 2021
GEN 3.5 - 8	20 MAY 2021
GEN 3.5 - 9	03 NOV 2022
GEN 3.5 - 10	03 NOV 2022
GEN 3.5 - 11	23 MAR 2023
GEN 3.5 - 12	02 DEC 2021
GEN 3.5 - 13	02 DEC 2021
GEN 3.5 - 14	02 DEC 2021
GEN 3.6 - 1	27 JAN 2022
GEN 3.6 - 2	24 MAR 2022
GEN 3.6 - 3	24 MAR 2022
GEN 3.6 - 4	24 MAR 2022
GEN 4.1 - 1	24 FEB 2022
GEN 4.1 - 2	16 JUL 2020
GEN 4.1 - 3	14 JUL 2022
GEN 4.1 - 4	10 OCT 2019
GEN 4.1 - 5	08 MAR 2012
GEN 4.1 - 6	24 FEB 2022
GEN 4.1 - 7	24 FEB 2022
GEN 4.1 - 8	24 FEB 2022
GEN 4.1 - 9	24 FEB 2022
GEN 4.1 - 10	14 JUL 2022
GEN 4.1 - 11	24 FEB 2022
GEN 4.1 - 12	17 JUN 2021
GEN 4.1 - 13	17 JUN 2021
GEN 4.1 - 14	17 JUN 2021
GEN 4.1 - 15	14 JUL 2022
GEN 4.1 - 16	06 OCT 2022
GEN 4.1 - 17	21 APR 2022
GEN 4.1 - 18	14 JUL 2022
GEN 4.1 - 19	15 JUN 2023
GEN 4.1 - 20	18 JUL 2019
GEN 4.1 - 21	14 JUL 2022
GEN 4.1 - 22	18 JUL 2019
GEN 4.1 - 23	10 OCT 2019
GEN 4.1 - 24	14 JUL 2022
GEN 4.1 - 25	14 JUL 2022
GEN 4.1 - 26	24 MAR 2022
GEN 4.1 - 27	21 APR 2022
GEN 4.1 - 28	21 APR 2022
GEN 4.1 - 29	24 MAR 2022
GEN 4.1 - 30	19 MAY 2022
GEN 4.1 - 31	24 MAR 2022
GEN 4.1 - 32	24 MAR 2022
GEN 4.1 - 33	24 MAR 2022
GEN 4.1 - 34	19 MAY 2022
GEN 4.1 - 35	24 MAR 2022
GEN 4.1 - 36	24 MAR 2022
GEN 4.1 - 37	18 JUL 2019
GEN 4.1 - 38	14 JUL 2022
GEN 4.1 - 39	14 JUL 2022
GEN 4.1 - 40	18 JUL 2019
GEN 4.1 - 41	18 JUL 2019
GEN 4.1 - 42	17 JUN 2021
GEN 4.2 - 1	16 JUN 2022
GEN 4.2 - 2	16 JUN 2022
GEN 4.2 - 3	23 MAR 2023
GEN 4.2 - 4	16 JUN 2022

PART 2 - EN-ROUTE (ENR)

ENR 0.1 - 1	08 MAR 2012
ENR 0.1 - 2	08 MAR 2012
ENR 0.2 - 1	08 MAR 2012
ENR 0.2 - 2	08 MAR 2012
ENR 0.3 - 1	08 MAR 2012
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ENR 1.8 - 8	03 JAN 2019
ENR 1.8 - 9	03 JAN 2019
ENR 1.8 - 10	27 FEB 2020
ENR 1.8 - 11	27 FEB 2020

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Page	Date	Page	Date
ENR 1.8 - 12	03 JAN 2019	ENR 2.1 - 1	03 DEC 2020
ENR 1.8 - 13	16 JUL 2020	ENR 2.1 - 2	07 OCT 2021
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ENR 1.14 - 5	23 FEB 2023	ENR 4.4 - 4	20 APR 2023
ENR 1.14 - 6	23 FEB 2023	ENR 4.4 - 5	20 APR 2023

Page	Date
ENR 4.4 - 6	18 MAY 2023
ENR 4.4 - 7	20 APR 2023
ENR 4.4 - 8	20 APR 2023
ENR 4.4 - 9	20 APR 2023
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Page	Date
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ENR 6.12 - 1	14 JUL 2022
ENR 6.12 - 2	14 JUL 2022

PART 3 - AERODROMES (AD)

AD 0.1 - 1	08 MAR 2012
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AD 0.6 - 10	20 APR 2023
AD 1.1 - 1	21 APR 2022
AD 1.1 - 2	21 APR 2022
AD 1.1 - 3	07 DEC 2017
AD 1.1 - 4	07 DEC 2017

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Page	Date
AD 1.1 - 5	07 DEC 2017
AD 1.1 - 6	08 MAR 2012
AD 1.2 - 1	26 JAN 2023
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LDLO AD 2 - 4	02 DEC 2021

Page	Date
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Page	Date
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LDRI AD 2 - 12	20 APR 2023
LDRI AD 2 - 13	20 APR 2023

Page	Date
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LDSB AD 2.24.12 IAC RNP RWY 03 - 3	20 MAY 2021

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Page	Date
LDSB AD 2.24.12 IAC RNP RWY 03 - 4	20 MAY 2021
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LDZA AD 2.24.12 IAC RNP RWY 22 - 4	19 MAY 2022

Page	Date
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LDZD AD 2.24.11 ATCSMAC - 2	15 JUN 2023
LDZD AD 2.24.12 IAC VOR RWY 04 - 1	14 JUL 2022
LDZD AD 2.24.12 IAC VOR RWY 04 - 2	14 JUL 2022
LDZD AD 2.24.12 IAC Ly RWY 13 - 1	14 JUL 2022
LDZD AD 2.24.12 IAC Ly RWY 13 - 2	14 JUL 2022
LDZD AD 2.24.12 IAC Lz RWY 13 - 1	14 JUL 2022
LDZD AD 2.24.12 IAC Lz RWY 13 - 2	14 JUL 2022
LDZD AD 2.24.12 IAC VOR RWY 13 - 1	14 JUL 2022
LDZD AD 2.24.12 IAC VOR RWY 13 - 2	14 JUL 2022
LDZD AD 2.24.12 IAC ILS or LOC RWY 13 - 1	14 JUL 2022
LDZD AD 2.24.12 IAC ILS or LOC RWY 13 - 2	14 JUL 2022
LDZD AD 2.24.12 IAC RNP RWY 04 - 1	16 JUN 2022
LDZD AD 2.24.12 IAC RNP RWY 04 - 2	16 JUN 2022
LDZD AD 2.24.12 IAC RNP RWY 04 - 3	16 JUN 2022
LDZD AD 2.24.12 IAC RNP RWY 04 - 4	16 JUN 2022
LDZD AD 2.24.12 IAC RNP Y RWY 13 - 1	16 JUN 2022
LDZD AD 2.24.12 IAC RNP Y RWY 13 - 2	16 JUN 2022
LDZD AD 2.24.12 IAC RNP Y RWY 13 - 3	16 JUN 2022
LDZD AD 2.24.12 IAC RNP Y RWY 13 - 4	16 JUN 2022
LDZD AD 2.24.12 IAC RNP Z RWY 13 - 1	16 JUN 2022
LDZD AD 2.24.12 IAC RNP Z RWY 13 - 2	16 JUN 2022
LDZD AD 2.24.12 IAC RNP Z RWY 13 - 3	16 JUN 2022
LDZD AD 2.24.12 IAC RNP Z RWY 13 - 4	16 JUN 2022
LDZD AD 2.24.12 IAC RNP RWY 31 - 1	16 JUN 2022
LDZD AD 2.24.12 IAC RNP RWY 31 - 2	16 JUN 2022
LDZD AD 2.24.12 IAC RNP RWY 31 - 3	16 JUN 2022
LDZD AD 2.24.12 IAC RNP RWY 31 - 4	16 JUN 2022
LDZD AD 2.24.12 IAC L RWY 31 - 1	14 JUL 2022
LDZD AD 2.24.12 IAC L RWY 31 - 2	14 JUL 2022
LDZD AD 2.24.12 IAC VOR RWY 31 - 1	14 JUL 2022
LDZD AD 2.24.12 IAC VOR RWY 31 - 2	14 JUL 2022
LDZD AD 2.24.13 VOC - 1	11 AUG 2022
LDZD AD 2.24.13 VOC - 2	11 AUG 2022

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GEN 0.5 LIST OF HAND AMENDMENTS TO THE AIP

AIP page(s) affected	Amendment text	Introduced by AIP AMDT number:
1	2	3
LDZD AD 2.24.4 AOC RWY04/22 -1 LDZD AD 2.24.4 AOC RWY13/31 -1	MAG VAR / Annual rate of change is 4°E (2019) / 0.13° increasing. RWY designator 14/32 is changed to 13/31.	AIRAC AIP AMDT 008/2019 (10 OCT 2019)
ENR 6.9-1	Airport name is changed to “Zagreb/Franjo Tuđman”	AIRAC AIP AMDT 003/2020 (23 APR 2020)
LDZD AD 2.24.1 ADC -1	New Sections S5 and S6 on Main apron.	AIRAC AIP AMDT 008/2019 (10 OCT 2019)
LDSB AD 2.24.2 APDC -1	ACL ELEV is 1736 FT.	AIRAC AIP AMDT 007/2021 (12 AUG 2021)
LDDU AD 2.24.1 ADC -1	Use of TWY B by ACFT code letter E only if approved by ATC and strictly guided by FOLLOW ME vehicle.	AIRAC AIP AMDT 008/2021 (09 SEP 2021)
LDZA AD 2.24.6 PATC RWY 04 -1	GP 04 RDH is changed to 54 FT.	AIRAC AIP AMDT 010/2021 (04 NOV 2021)
LDZD AD 2.24.1 ADC -1 LDZD AD 2.24.2 APDC -1	ZADAR DELIVERY FREQ 132.975 MHZ.	AIRAC AIP AMDT 005/2022 (16 JUN 2022)
LDZD AD 2.24.1 ADC -1	TWY A strength changed to 55/R/B/W/T. TWY H strength changed to 50/R/B/W/T.	AIRAC AIP AMDT 008/2022 (08 SEP 2022)
LDZD AD 2.24.2 APDC -1	S5 PCN 63/R/A/W/T S6 PCN 132/F/B/X/T	AIRAC AIP AMDT 008/2022 (08 SEP 2022)
LDZA AD 2.24.2 APDC EAST -1	PSN number E8L equipped with Visual Docking Guidance System	AIRAC AIP AMDT 009/2022 (06 OCT 2022)
LDDU AD 2.24.11 ATCSMAC -1	Significant points TIBRI and KOFER changed to compulsory reporting points.	AIRAC AIP AMDT 011/2022 (01 DEC 2022)
ENR 6.2-1	DME KLS channel is 29Y.	AIRAC AIP AMDT 004/2023 (18 MAY 2023)
LDDU AD 2.24.4 AOC RWY 11 -1 LDDU AD 2.24.4 AOC RWY 29 -1	RWY 11: TORA, TODA and ASDA should read 3230 M. RWY 29: TORA, TODA, ASDA and LDA should read 3230 M.	AIRAC AIP AMDT 005/2023 (15 JUN 2023)

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GEN 2.5 LIST OF RADIO NAVIGATION AIDS

DECODE			
ID	Station name	Aid	Purpose
BO	BOKANJAC	L	A
BRC	BRAC	DME	AE
BRZ	BREZA	NDB	A
CE	CEPIN	L	AE
CRE	CRES	NDB	AE
CV	CAVTAT	L	A
DBK	DUBROVNIK	VOR/DME	AE
DVN	DRVENIK	NDB	A
GR	GRUDA	L	A
HUM	BRAC	NDB	A
IDU	DUBROVNIK	DME	A
IDU	DUBROVNIK / CILIPI	LOC 11	A
IKR	RIJEKA / KRK I	LOC 14	A
IOS	OSIJEK / KLISA	LOC 29	A
IPU	PULA	LOC 27	A
ISJ	OSIJEK	DME	A
ISJ	OSIJEK	LOC 11	A
IST	SPLIT	DME	AE
IST	SPLIT / KASTELA	LOC 05	A
IZA	ZAGREB	DME	A
IZA	ZAGREB / FRANJO TUDJMAN	LOC 04	A
IZD	ZADAR / ZEMUNIK	LOC 13	A
IZG	ZAGREB / FRANJO TUDJMAN	LOC 22	A
JAP	JAPETIC	DME	AE
KAV	KAVRAN	NDB	A
KLP	KOLOCEP	NDB	A
KLS	OSIJEK	DME	AE
LOS	LOSINJ	NDB	AE
LSJ	LOSINJ	DME	AE
LUK	LUKAVEC	DME	AE
NTL	LOSINJ	VOR/DME	AE

ENCODE			
Station name	Aid	ID	Purpose
BARNA	VOR/DME	VBA	AE
BOKANJAC	L	BO	A
BRAC	DME	BRC	AE
BRAC	NDB	HUM	A
BREZA	NDB	BRZ	A
CAVTAT	L	CV	A
CEPIN	L	CE	AE
CRES	NDB	CRE	AE
DRVENIK	NDB	DVN	A
DUBROVNIK	DME	IDU	A
DUBROVNIK	VOR/DME	DBK	AE
DUBROVNIK / CILIPI	LOC 11	IDU	A
GRUDA	L	GR	A
JAPETIC	DME	JAP	AE
KAKMA	NDB	ZRA	A
KAVRAN	NDB	KAV	A
KOLOCEP	NDB	KLP	A
LOSINJ	DME	LSJ	AE
LOSINJ	NDB	LOS	AE
LOSINJ	VOR/DME	NTL	AE
LUKAVEC	DME	LUK	AE
OSIJEK	DME	ISJ	A
OSIJEK	DME	KLS	AE
OSIJEK	LOC 11	ISJ	A
OSIJEK	NDB	OSJ	A
OSIJEK / KLISA	LOC 29	IOS	A
PISAROVINA	NDB	PIS	AE
PULA	LOC 27	IPU	A
PULA	NDB	PLA	A
PULA	VOR/DME	PUL	AE
RIJEKA	L	RI	A

DECODE			
ID	Station name	Aid	Purpose
OSJ	OSIJEK	NDB	A
PIS	PISAROVINA	NDB	AE
PLA	PULA	NDB	A
PUL	PULA	VOR/DME	AE
RI	RIJEKA	L	A
RJK	RIJEKA	VOR/DME	AE
SAL	SALI	NDB	AE
SK	S.KRALJEVEC	L	A
SPL	SPLIT	VOR/DME	AE
TNJ	TOUNJ	NDB	E
TRI	TROGIR	NDB	A
VBA	BARNA	VOR/DME	AE
VG	VELIKA GORICA	L	A
VRS	VRSAR	NDB	AE
ZAG	ZAGREB	VOR/DME	AE
ZDA	ZADAR	VOR/DME	AE
ZK	ZADAR	L	A
ZRA	KAKMA	NDB	A

ENCODE			
Station name	Aid	ID	Purpose
RIJEKA	VOR/DME	RJK	AE
RIJEKA / KRK I	LOC 14	IKR	A
S.KRALJEVEC	L	SK	A
SALI	NDB	SAL	AE
SPLIT	VOR/DME	SPL	AE
SPLIT	DME	IST	AE
SPLIT / KASTELA	LOC 05	IST	A
TOUNJ	NDB	TNJ	E
TROGIR	NDB	TRI	A
VELIKA GORICA	L	VG	A
VRSAR	NDB	VRS	AE
ZADAR	L	ZK	A
ZADAR	VOR/DME	ZDA	AE
ZADAR / ZEMUNIK	LOC 13	IZD	A
ZAGREB	DME	IZA	A
ZAGREB	VOR/DME	ZAG	AE
ZAGREB / FRANJO TUDJMAN	LOC 04	IZA	A
ZAGREB / FRANJO TUDJMAN	LOC 22	IZG	A

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GEN 3.5 METEOROLOGICAL SERVICES

GEN 3.5.1 RESPONSIBLE SERVICE

The meteorological services for civil aviation are provided by Croatia Control Ltd., Aeronautical Meteorology Service (MET).

Post: CROATIA CONTROL, Ltd.
AERONAUTICAL METEOROLOGY SERVICE (MET)
Rudolfa Fizira 2
10410 Velika Gorica, P.O. Box 103
Croatia

Phone: +385 1 6259280

Fax: + 385 1 6259223

Email: met@crocontrol.hr

URL: https://met.crocontrol.hr/

The service is provided in accordance with CIR (EU) 2017/373, as amended and complemented, and with the provisions contained in the following ICAO documents:

- Annex 3 - Meteorological Service for International Air Navigation;
- Doc 7030 - Regional Supplementary Procedures;
- Doc 7754 - Air Navigation Plan - European Region;
- Doc 8400 - Abbreviations and Codes;
- Doc 8896 - Manual of Aeronautical meteorological Practice.

Differences to these provisions are detailed in subsection GEN 1.7.

GEN 3.5.2 AREA OF RESPONSIBILITY

Area meteorological watch is provided for the Zagreb FIR.

GEN 3.5.3 METEOROLOGICAL OBSERVATIONS AND REPORTS

Meteorological observations and reports are provided and disseminated from aeronautical meteorological stations, according to ICAO Annex 3 regulations. Routine reports are issued at HR+00 and HR+30.

Observations are provided at airports ZAGREB/Franjo Tuđman, SPLIT/Kaštela, PULA, DUBROVNIK/Čilipi, ZADAR/Zemunik, OSIJEK/Klisa, RIJEKA/Krk I., LOŠINJ/Lošinj I. and BRAČ/Brač I.

Runway visual range (RVR) assessment is made at airport ZAGREB/Franjo Tuđman, PULA, SPLIT/Kaštela, DUBROVNIK/Čilipi and ZADAR/Zemunik. The RVR values are displayed automatically in digital form at the MET and ATS units.

AUTO METAR is made from sensor data and a calculation of algorithms. Sensors are located on sites representative for airport measurements. In AUTO METAR reports weather conditions are reported in accordance with ICAO Annex 3 if they are within the detection range of the system.

There is no difference between METAR and AUTO METAR reports for the following elements:

- Wind speed and direction
- Temperature and dew point
- Pressure (QNH)
- RVR

Differences and limitations of AUTO METAR reports in relation to METAR reports are reflected in the following elements:

- Visibility
- Present Weather
- Cloudiness
- Supplementary information on recent weather phenomena

VISIBILITY:

In AUTO METAR reports aeronautical visibility is determined and reported as defined by ICAO Annex 3 at the location of the visibilimeter. Visibility cannot be estimated within 360 DEG and this is why the reported visibility may not represent prevailing values. Minimum visibility in a certain direction cannot be reported.

PRESENT WEATHER:

In AUTO METAR reports present weather and recent weather information is assessed from the sensor located at the visibilimeter position. Sensor limitations are single point measurement (covering only one runway threshold) and the inability of reporting certain phenomena (GR, GS, PRFG, DU, SA, FU). Also, it is possible that the sensor reports present weather differently from the one that is actually present. Apart from the phenomena itself, the difference is more to be expected in the characteristic or the intensity which is due to a limitation of the sensor and a result of a single point measurement. The most frequent observed error is in reporting feeble rain (-RA) when there is no precipitation.

The lightning detection network is reliable in reporting TS and VCTS. In case of using a backup sensor rare occurrences of lightning that was not detected by the system are possible.
According to ICAO Annex 3 showers (SH) are not reported due to a lack of radar image and supporting algorithm.

CLOUDS:

In AUTO METAR reports cloud amount and ceiling is reported as a result of ceilometer measurements and an algorithm calculation. The laser-based measuring principle in one point (MM) prevents reporting cloud cover that is not, or recently has not been above the sensor itself. Determination of cloud amount is made by an algorithm that includes cloud detection data from the recent period. The algorithm works well for homogenous cloud distribution and moving clouds. Clouds off the sensors cannot be detected. Orographic clouds are most likely not to be detected by the system.
TCU and CB clouds are not reported in AUTO METAR reports due to a lack of radar image and supported algorithm.

MONITORING AND TECHNICAL SUPPORT:

The system for the production and distribution of AUTO METAR is monitored by the technical service. Technical failure of individual sensor can be replaced by other sensor only in the event of anemometer failure. Other sensors are not duplicated and missing data is replaced by slashes as usual in AUTO reports.

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GEN 4.1.4.7 SPLIT/Kaštela Airport

Service charge		
Traffic type	**Unit**	**EUR**
International passenger service	Departing passenger	11,00
Domestic passenger service		5,00

GEN 4.1.4.8 ZADAR/Zemunik Airport

Price of service

Passenger service charge per departing passenger		
Traffic type	**Unit**	**EUR**
International passenger service	Departing passenger	10,00
Domestic passenger service		5,00

GEN 4.1.4.9 ZAGREB/Franjo Tuđman Airport

Passenger service per departing passenger:

Service charge		
Traffic type	**Unit**	**EUR**
International passenger service	Departing passenger	19,67
Domestic passenger service		8,43
Passenger service per transfer		4,50

GEN 4.1.5. SECURITY

GEN 4.1.5.1 DUBROVNIK/Čilipi Airport

Security charge (valid from 01 JUL 2014)		
Traffic type	**Unit**	**EUR**
Commercial traffic	Departing passenger	5,00
Non Commercial traffic		5,00

GEN 4.1.5.2 OSIJEK/Klisa Airport

Traffic type	Unit	EUR
Commercial traffic	Departing passenger	4,00
Non Commercial traffic		4,00

Air Cargo Security Charges

Air Cargo Security Charges are due from the freight forwarding agent, unless otherwise advised by the air carrier.

Service	Unit	EUR
X-ray check of cargo and mail	per shipment	1,35
	additionally per kg	0,02

Service	Unit	EUR
Security check (for shipments not possible to be checked by X-ray due to weight or dimensions)	per shipment	6,76

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Basic flight rules for Specific category

As specified in operational authorisation, standard scenario and in accordance with Single European Rules of the Air Regulation (EU) 923/2012.

CERTIFIED CATEGORY

1. Operations shall be classified as an UAS operations in the 'certified' category only where the following requirements are met:

   a. the UAS is certified pursuant to points (a), (b) and (c) of paragraph 1 of Article 40 of Delegated Regulation (EU) 2019/945; and

   b. the operation is conducted in any of the following conditions:

      i. over assemblies of people;

      ii. involves the transport of people;

      iii. involves the carriage of dangerous goods, that may result in high riskfor third parties in case of accident.

2. In addition, UAS operations shall be classified as UAS operations in the 'certified' category where the CCAA, based on the risk assessment provided for in Article 11 of Implementing Regulation (EU) 2019/947, considers that the risk of the operation cannot be adequately mitigated without the certification of the UAS and of the UAS operator and, where applicable, without the licensing of the remote pilot.

Basic flight rules for Certified category

In accordance with Single European Rules of the Air, Regulation (EU) 923/2012 and Regulation (EU) 1332/2011.

THIRD COUNTRY OPERATORS

UAS operators that have their principal place of business, are established, or reside in a third country, shall comply with above stated and other applicable rules of Implementing Regulation (EU) 2019/947 for the purpose of UAS operations within Croatian airspace.

ENR 1.1.12 HELICOPTER OPERATIONS TO AND FROM NATURAL HELICOPTER LANDING SITES

Periodic individual operations of the off-airport landing and take-off of helicopters (hereinafter IASU/H) from natural helicopter landing sites (hereinafter NHLS) are permitted if the operator complies with conditions related to the obligation to obtain the approval, the experience of the crew, landing/take-off area and safety aspects of the operation. Those conditions are prescribed by the Regulation on helicopter operations to/from natural helicopter landing sites (hereinafter Regulation).

The provisions of the Regulation do not apply to IASU/H operations when landing in case of emergency, providing emergency medical assistance or when carrying out military, customs or police activities, search and rescue activities, firefighting, border control and coast guard or similar activities undertaken in the public interest.

Approval is issued by the Croatian Civil Aviation Agency (hereinafter Agency) based on a request submission by the helicopter operator on the prescribed application form FAO-FRM-003, no later than seven (7) working days before the commencement of operations. Application form is available on Agency's website https://www.ccaa.hr/en/forms-65654 under Forms.

The approval issued by the Agency does not relieve the helicopter operator from the responsibility of obtaining other approval/s and comply with the requirements from other regulations governing property and legal relations, and physical planning and environmental protection.

The helicopter operator is also required to obtain approval when performing flight operations from a vessel, for the purpose of landing on the NHLS and *vice versa*.

IASU/H may only be performed by a helicopter pilot-in-command (PIC) having the appropriate pilot license and experience and having performed at least 3 landings and take-off during the 90 days preceding the intended operations, on the helicopter specified in the application.

NHLS shall not be located in a congested area and at a distance of less than 500 FT (150 M) of a congested area. NHLS must be free of any obstacles and surrounded by a safe area with width not less than 10 M.

Landing and take-off from NHLS may only be performed by day in visual meteorological conditions and in accordance with the helicopter flight manual (FM).

Prior to the commencement of the operations, helicopter operator must notify the Operations and Communications Centre of local competent police administration of the Ministry of the Interior of the Republic of Croatia about the landing site i.e. the use of NHLS, via contact number available on the following link: https://mup.gov.hr/footer-109/footer-111/about-the-police-120/police-administration/146.

The helicopter operator is obliged to keep records of performed IASU/H operations (such as name of the area(s), coordinates of the locality, date and the number of operations) and submit a written notification to the Agency upon the completion of operations.

ENR 1.1.13 SPECIAL USE OF CONTROLLED AIRSPACE

Written permission shall be obtained from Croatia Control Ltd. for a special use of controlled airspace (see relevant AICs series B).

ENR 1.1.14 PERMISSIBLE ALCOHOL CONCENTRATION IN THE BODY FOR AIRCRAFT CREW MEMBERS

Ordinance on the Rules of the Air (Official Gazette, No. 32/2018, 10/2021)

Problematic use of psychoactive substances

Article 75a.

An aircraft crew member is under the influence of alcohol while performing his/her duties if his/her alcohol concentration in the body is determined to be higher than 0.2 g/kg (gram of alcohol per kilogram of blood) or the appropriate amount of milligrams per liter of exhaled air.
An aircraft crew member who refuses to cooperate during an alcohol test or who has been tested positive for alcohol is not permitted to perform his/her duties.

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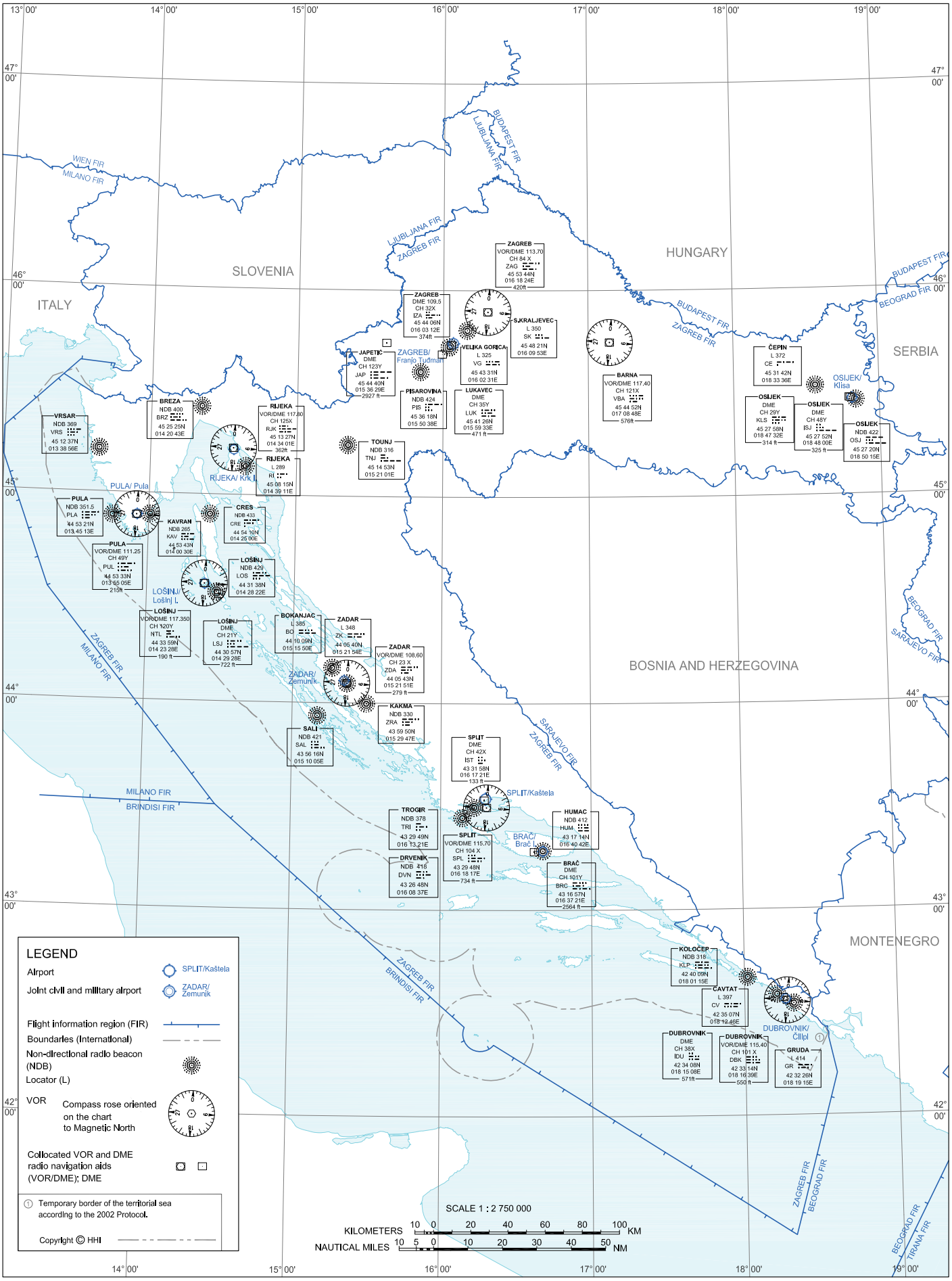
RADIO FACILITY - INDEX CHART



CHANGE: GS L and VL L withdrawn; Editorial.

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LDDU AD 2.5 PASSENGER FACILITIES

1	Hotels	Hotels in Cavtat and Dubrovnik
2	Restaurants	At AD, in Cavtat and Dubrovnik
3	Transportation	Bus, taxi, rent a car at AD
4	Medical facilities	First aid at AD, hospital in Dubrovnik
5	Bank and Post Office	At AD, in Cavtat and Dubrovnik
6	Tourist Office	At AD and in Cavtat and Dubrovnik
7	Remarks	Nil

LDDU AD 2.6 RESCUE AND FIRE FIGHTING SERVICES

1	AD category for fire fighting	CAT 9 See Remarks
2	Rescue equipment	- 1 command vehicle 200 L water, 5 L foam - 1 heavy fire fighting vehicle 15.000 L water, 2.000 L foam, 250 KG powder - 1 heavy fire fighting vehicle 12.500 L water, 1.500 L foam, 250 KG powder - 1 heavy fire fighting vehicle 9.100 L water, 1.100 L foam - 1 technical fire fighting vehicle 4.000 L water, 400 L foam, 250 KG powder.
3	Capability for removal of disabled aircraft	1 towing tractor TITAN. Towbars: A319, A320, A321, A300, A330, A340, ATR42, B732, B738, B757, B767, B747, B717, CRJ200, DC9, DHC-7, MD80, MD90, TU134, TU154. 3 Towbarless tractors GOLDHOFER, towbarless tractor LECTRO up to 33 T MTOW, towbarless tractor LECTRO up to 54 T MTOW. On request by external company: mobile lifting cranes up to 100 000 KG. Contact (Airport Duty Manager) Mobile phone: +385 98 983 5980 e-mail: stationmngr@airport-dubrovnik.hr
4	Remarks	Winter period flight schedule - CAT 6 Summer period flight schedule - CAT 7 All flights with a schedule approved in process of facilitation and coordination activities according to EEC 95/93 and IATA Calendar of Coordination Activities will be covered with adequate Rescue and Fire Fighting CAT. All categories previously noticed, up to and including CAT 9, AVBL on request by prior notice (H24).

LDDU AD 2.7 RUNWAY SURFACE CONDITION ASSESSMENT AND REPORTING, AND SNOW PLAN

1	Types of clearing equipment	Snow ploughs, spreaders (urea)
2	Clearance priorities	1. Runway 2. Taxiway D 3. Parking positions 8 and 10
3	Use of material for movement area surface treatment	Urea
4	Specially prepared winter runways	NIL
5	Remarks	Global reporting format - GRF implemented

LDDU AD 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS/POSITIONS DATA

1	Apron surface and strength	**SURFACE**		**STRENGTH**	
		CONC		PCN 68/R/A/W/T	
2	Taxiway width, surface and strength	**TWY**	**WIDTH (M)**	**SURFACE**	**STRENGTH**
		A	23	ASPH	PCN 88/F/A/W/T
		B	27	CONC	PCN 72/R/A/W/T
		C	26	ASPH	PCN 88/F/A/W/T
		D	28	ASPH	PCN 88/F/A/W/T
		E	28	ASPH	PCN 88/F/A/W/T
		F	23	ASPH	PCN 88/F/A/W/T
		G	23	ASPH	PCN 88/F/A/W/T
		W	23	ASPH	PCN 88/F/A/W/T
3	ACL location and elevation	Location: At Apron Elevation: 157 M			
4	VOR checkpoints	NIL			
5	INS checkpoints	See LDDU AD 2.24.2 APDC -1			
6	Remarks	Use of TWY B by ACFT code letter E only if approved by ATC and strictly guided by follow me vehicle.			

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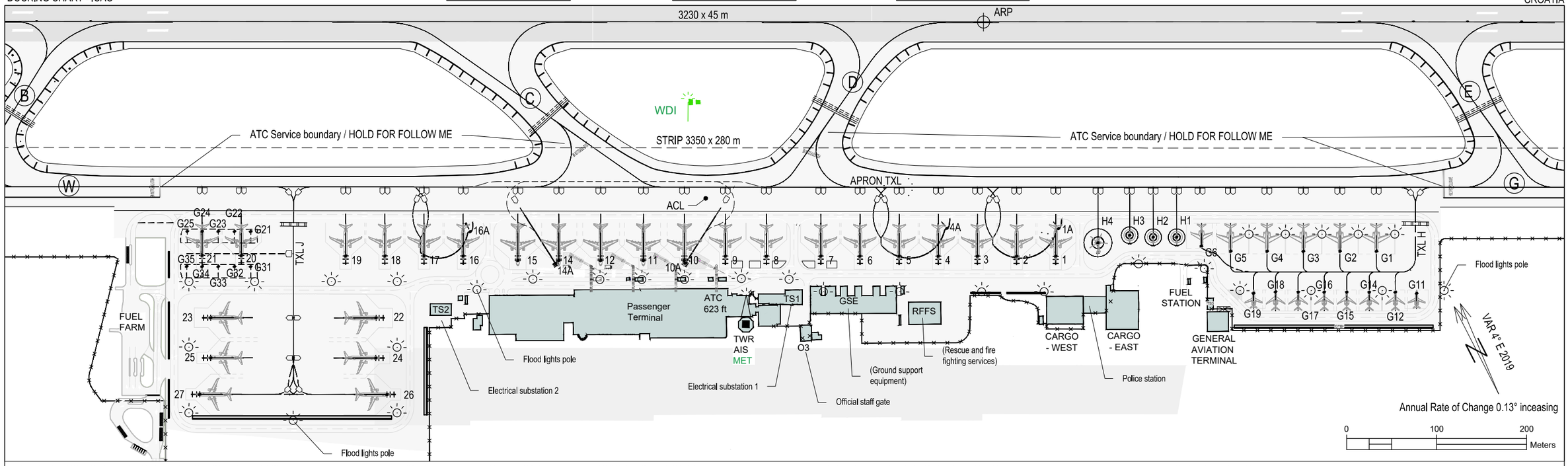
APRON ACL ELEV. 515 FT | DUBROVNIK ATIS 118.425 | DUBROVNIK TOWER 129.500



PARKING POSITIONS AND ITS REFERENCE POINTS ETRS89:

PSN 1	MAX B739/MD90	42°33'32".54 N 18°16'02".59 E
PSN1A	MAX B748	42°33'33".37 N 18°16'03".35 E
PSN 2	MAX B739/MD90	42°33'33".21 N 18°16'00".91 E
PSN 3	MAX B739/MD90	42°33'33".88 N 18°15'59".23 E
PSN 4	MAX B739/MD90	42°33'34".54 N 18°15'57".55 E
PSN 4A	MAX B748	42°33'35".27 N 18°15'58".56 E
PSN 5	MAX B739/MD90	42°33'35".21 N 18°15'55".87 E
PSN 6	MAX B739/MD90	42°33'35".87 N 18°15'54".19 E
PSN 7	MAX B739/MD90	42°33'36".54 N 18°15'52".51 E
PSN 8	MAX B739/MD90	42°33'37".46 N 18°15'50".18 E
PSN 9	MAX B739/MD90	42°33'38".16 N 18°15'48".42 E
PSN 10	MAX B752	42°33'38".72 N 18°15'46".56 E
PSN 10A	MAX B772LR	42°33'38".62 N 18°15'46".54 E
PSN 11	MAX B752	42°33'39".42 N 18°15'44".80 E
PSN 12	MAX B752	42°33'40".14 N 18°15'42".96 E
PSN 14	MAX B752	42°33'40".85 N 18°15'41".17 E
PSN 14A	MAX B772LR	42°33'40".82 N 18°15'40".96 E
PSN 15	MAX B752	42°33'41".55 N 18°15'39".41 E
PSN 16	MAX B739/MD90	42°33'42".63 N 18°15'37".17 E
PSN 16A	MAX B744	42°33'43".28 N 18°15'38".02 E
PSN 17	MAX B739/MD90	42°33'43".29 N 18°15'35".49 E
PSN 18	MAX B739/MD90	42°33'43".96 N 18°15'33".81 E
PSN 19	MAX B739/MD90	42°33'44".62 N 18°15'32".13 E
PSN 20	MAX B739/MD90	42°33'46".41 N 18°15'27".66 E
PSN 21	MAX B739/MD90	42°33'47".08 N 18°15'25".98 E
PSN 22	MAX B739/MD90	42°33'42".14 N 18°15'32".01 E
PSN 23	MAX B739/MD90	42°33'44".96 N 18°15'24".92 E
PSN 24	MAX B739/MD90	42°33'40".88 N 18°15'31".08 E
PSN 25	MAX B739/MD90	42°33'43".69 N 18°15'24".00 E
PSN 26	MAX B739/MD90	42°33'39".53 N 18°15'30".72 E
PSN 27	MAX B739/MD90	42°33'42".72 N 18°15'22".69 E
PSN G1	MAX Gulfstream 700	42°33'27".25 N 18°16'16".47 E
PSN G2	MAX Gulfstream 700	42°33'27".87 N 18°16'14".90 E
PSN G3	MAX Gulfstream 700	42°33'28".49 N 18°16'13".33 E
PSN G4	MAX Gulfstream 700	42°33'29".11 N 18°16'11".78 E
PSN G5	MAX Gulfstream 700	42°33'29".73 N 18°16'10".21 E
PSN G6	MAX Gulfstream IV	42°33'30".38 N 18°16'09".08 E
PSN G11	MAX Falcon 900	42°33'25".23 N 18°16'17".22 E
PSN G12	MAX Cessna Citation X+	42°33'25".63 N 18°16'16".34 E
PSN G14	MAX Cessna Citation X+	42°33'26".08 N 18°16'15".22 E
PSN G15	MAX Cessna Citation X+	42°33'26".46 N 18°16'14".25 E
PSN G16	MAX Cessna Citation X+	42°33'26".84 N 18°16'13".29 E
PSN G17	MAX Cessna Citation X+	42°33'27".29 N 18°16'12".17 E
PSN G18	MAX Cessna Citation X+	42°33'27".68 N 18°16'11".21 E
PSN G19	MAX Falcon 900	42°33'28".00 N 18°16'10".23 E
PSN H1	MAX Bell 430	42°33'31".09 N 18°16'08".21 E
PSN H2	MAX Bell 430	42°33'31".49 N 18°16'07".21 E
PSN H3	MAX Bell 412EPX	42°33'31".95 N 18°16'06".24 E
PSN H4	MAX Mil Mi-171	42°33'32".25 N 18°16'04".71 E
PSN G21	MAX Air Tractor A402	42°33'47".02 N 18°15'28".62 E
PSN G22	MAX Air Tractor A402	42°33'47".29 N 18°15'27".92 E
PSN G23	MAX Air Tractor A402	42°33'47".57 N 18°15'27".23 E
PSN G24	MAX Air Tractor A402	42°33'47".84 N 18°15'26".53 E
PSN G25	MAX DA40	42°33'48".10 N 18°15'25".90 E
PSN G31	MAX Air Tractor A402	42°33'45".90 N 18°15'27".81 E
PSN G32	MAX Air Tractor A402	42°33'46".17 N 18°15'27".11 E
PSN G33	MAX Air Tractor A402	42°33'46".45 N 18°15'26".42 E
PSN G34	MAX Air Tractor A402	42°33'46".73 N 18°15'25".72 E
PSN G35	MAX C421	42°33'47".00 N 18°15'25".07 E

TAXIING AND PARKING RESTRICTIONS AND NOTES:

1. PSNs: 1A, 4A, 16A, G1-G5, G21-G25 and H1-H4 are selfmanoeuvring.
2. PSNs: 1-27, 10A, 14A and G6 are taxi-in/push-out.
3. PSNs: G11-G19 and G31-G35 are push-in/taxi-out.
4. PSNs: 1-9, 15-21 and G6 are selfmanoeuvring for exiting if the following PSNs are vacated:
   PSNs: H4 or 2 for PSN 1
   PSNs: 1 or 3 for PSN 2
   PSNs: 2 and 1A or 4 and 4A for PSN 3
   PSNs: 3 or 5 for PSN 4
   PSNs: 4 or 6 for PSN 5
   PSNs: 5 and 4A or 7 for PSN 6
   PSNs: 6 or 8 for PSN 7
   PSNs: 7 or 9 for PSN 8
   PSN: 8 for PSN 9
   PSNs: 14 or 16 and 16A for PSN 15
   PSNs: 15 or 17 for PSN 16
   PSNs: 16 or 18 for PSN 17
   PSNs: 17 and 16A or 19 for PSN 18
   PSN: 18 or TXL J for PSN 19
   PSNs: 21, G24, G25, G34 and G35 or TXL J for PSN 20
   PSNs: 20, G21, G22, G31 and G32 for PSN 21
   PSN: G5 or H1 for PSN G6
5. When ACFT enters to PSNs: 1, 2, 4, 5, 9, 10, 14, 15, 16, 17, 20 and 21 the following PSNs must be vacated:
   PSN: 1A for PSNs: 1 and 2
   PSN: 4A for PSNs: 4 and 5
   PSN: 10A for PSNs: 9 and 10
   PSN: 14A for PSNs: 14 and 15
   PSN: 16A for PSNs: 16 and 17
   PSNs: G21, G22, G23, G31, G32, G33 for PSN 20
   PSNs: G23, G24, G25, G33, G34, G35 for PSN 21
6. When ACFT enters to PSNs: 1A, 4A, 10A, 14A, 16A, G21-G25, G31-G35 the following PSNs: must be vacated:
   PSNs: 1, 2 and 3 for PSN: 1A
   PSNs: 4, 5 and 6 for PSN: 4A
   PSNs: 9 and 10 for PSN: 10A
   PSNs: 14 and 15 for PSN: 14A
   PSNs: 16, 17 and 18 for PSN: 16A
   PSN: 20 for PSNs: G21-G25 and G31-G35
   PSN: 21 for PSNs: G23, G24, G25, G33, G34, G35

GENERAL NOTES

7. TWR directions, follow me guidance and marshaller instructions shall be followed for entering to/exiting from any of aircrafts and/or helicopters PSNs.
8. Max. Wingspan for TXL-H is 31m and max. Wingspan for TXL-J is 52m.
9. When ACFT with wingspan grater than 47,8m is taxiing on APRON TWY between PSNs 8-16, special conditions can be expected.
10. During code letter F ACFT ground movement, outer engines shall be used on idle power only.
11. During code letter E ACFT taxiing between TWY G and TWY W slow taxi speed is required.
12. For ACFT engine testing PSNs 1-21 can be used, with mandatory TWR prior approval.

ARRIVAL NOTES

13. When entering the APRON, it is mandatory to stop at HOLD FOR FOLLOW ME position and wait for the follow me vehicle and guidance.
14. AVDGS (Advanced visual docking guidance system) type APIS shall be followed for final entering to PSNs: 10, 10A, 11,12, 14 and 14A. In case of APIS failure, strictly follow marshaller instructions.

DEPARTURE NOTES:

15. ACFT engine start up is forbidden at PSNs: 22, 23, 24, 25, 26 and 27. Start up will be approved after push-out to HP J.
16. ATC DEP clearance is available on Dubrovnik TWR FREQ 15 MIN before start up.
17. Pilots shall state their parking position number on initial contact with ATC.
18. For taxi-out, ACFT shall request start-up clearance after communication with the ground crew has been established.
19. For push-out:
    - ACFT shall request push-back and start-up clearance after communication with the ground crew has been eastablished, push-back vehicle has been attached and aircraft is ready to commence push-back;
    - push-back clearance issued by ATC shall contain runway in use;
    - RWY in use shall be relayed to the ground crew by flight deck.

Change: Removed 20A. Moved PSNs G1-G11. Added PSNs G12-G35, H1-H4 and 22-27. Redesigned PSNs 7, 8 and 9 because of GSE parking area. Added taxilanes TXL-H and TXL-J withed adjacent holding positions. Added pushback lines for PSNs. 8-16, G6, 10A, 14A, 26, 27. Updated Taxiing and parking restrictions and notes. Editorial

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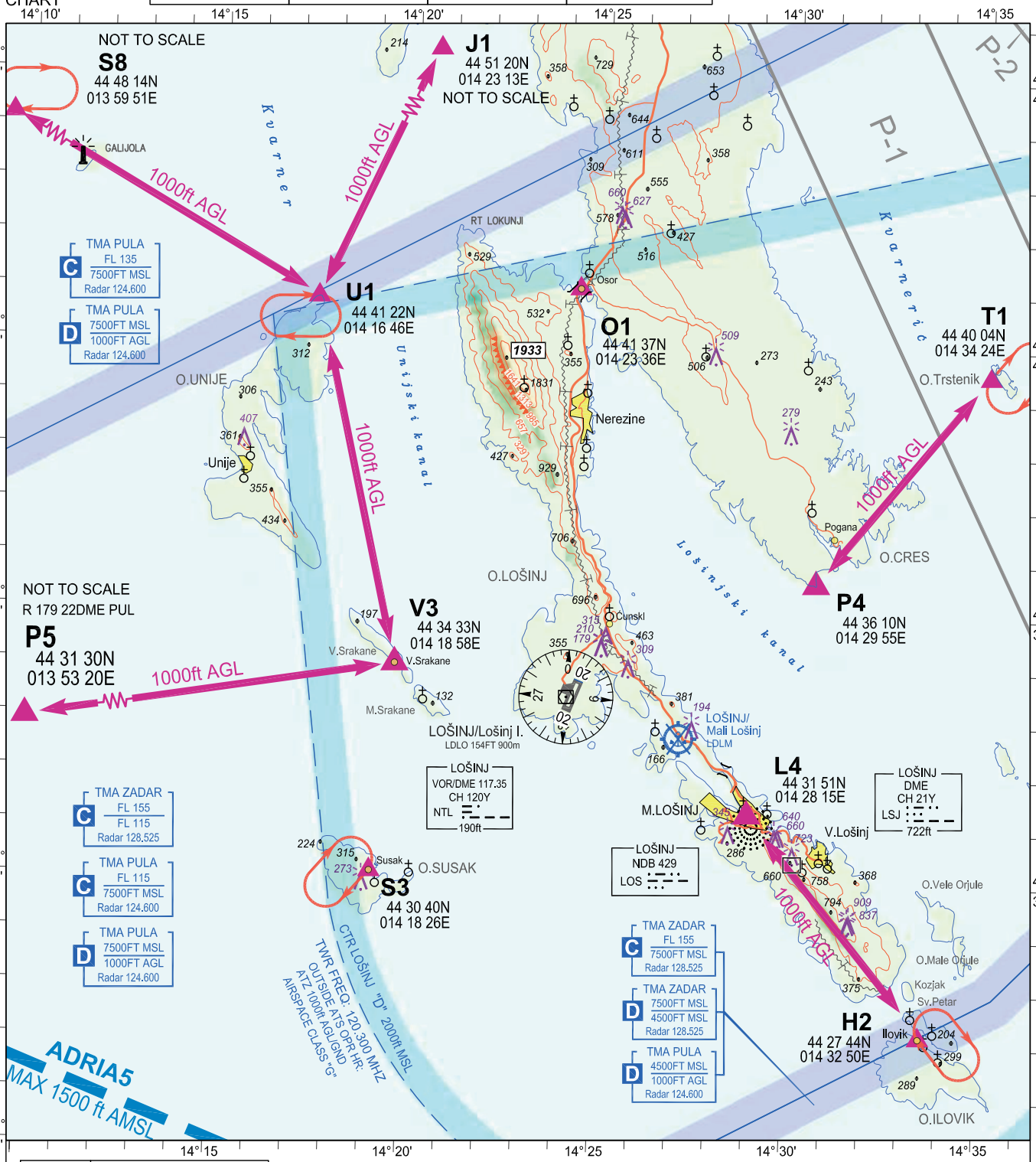
VISUAL OPERATION CHART

ARP	AD ELEV 154	LOŠINJ TOWER 120.300	PULA RADAR 124.600 127.675 ZADAR RADAR 128.525
44°33'57.26"N 014°23'35.48"E			

LOŠINJ / Lošinj I.
CROATIA



Reporting Point	Definition
H2	Island Ilovik
J1	Lake Vransko jezero
L4	Town Mali Lošinj
O1	Village Osor
P4	The southernmost cape of the island Cres
P5	R179 22DME PUL
S3	Island Susak
S8	Cape of Marlera
T1	Island Trstenik
U1	The northernmost cape of the island Unije
V3	Island Vele Srakane

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

SCALE 1:200 000

2 0 5 km
1 0 3 NM

(m) ft ELEVATION TINTS
(800) 2625
(400) 1313
(0) 0

VAR 4° E 2019

ALTITUDES AND ELEVATIONS IN FT

ATTENTION:
For latest information consult relevant publications, and NOTAMs!
Prominent transmission lines data not complete!
No guarantee for the completeness and accuracy of obstacles!

LEGEND

Holding fix with WGS-84 coordinates — H2 44 27 44N 014 32 50E
Significant VFR point — J1
Recommended VFR route — ADRIA5
Mandatory (arrival - departure) VFR route

CHANGE: New recommended VFR route ADRIA5 added; new reporting point P5 added; new mandatory VFR route V3-P5 added; Obstacles updated; Editorial.

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LDOS AD 2.10 AERODROME OBSTACLES

Obstacles in Area 2: See LDOS AD 2.24.4 AOC RWY 11/29 -1

In Area 2					
OBST ID/ Designation	**OBST type**	**OBST position**	**ELEV/HGT**	**Markings/ type, colour**	**Remarks**
a	**b**	**c**	**d**	**e**	**f**
LDOS 01	NDB antenna	452720.27N 0185015.79E	101/15 M	Marked / ICAO Lighted	Nil
LDOS 02	NDB antenna	452718.76N 0185014.99E	101/14 M	Marked / ICAO Lighted	Nil

Obstacles in Area 3: Nil

LDOS AD 2.11 METEOROLOGICAL INFORMATION PROVIDED

1	Associated MET Office	OSIJEK
2	Hours of service MET Office outside hours	H24
3	Office responsible for TAF preparation Periods of validity	ZAGREB TAF (24HR)
4	Trend Forecast Interval of issuance	Nil
5	Briefing/consultation provided	Selfbriefing (URL: https://ib.crocontrol.hr) or by phone: +385 1 6259 240
6	Flight documentation Language(s) used	• Selfbriefing (URL: https://ib.crocontrol.hr) or request by phone: +385 31 226 803 • Croatian, English
7	Charts and other information available for briefing or consultation	• ICE, TURB and CB forecasts • Lightning data • Satelite images • Radar images
8	Supplementary equipment available for providing information	Telefax URL:https://met.crocontrol.hr
9	ATS units provided with information	Osijek TWR, Osijek APP
10	Additional information (limitation of service, etc.)	Nil

LDOS AD 2.12 RUNWAY PHYSICAL CHARACTERISTICS

Designations RWY NR	TRUE BRG	Dimensions of RWY (M)	Strength (PCN) and surface of RWY and SWY	THR COORD RWY End COORD THR Geoid Undulation	THR elevation and highest elevation of TDZ of precision APP RWY
1	2	3	4	5	6
11	110.52°	2500 x 45 M	PCN 82/F/B/W/T ASPH	452758.68N 0184746.96E 452730.26N 0184934.68E 144.0 FT	THR 291 FT TDZ 289 FT
29	290.54°			452730.26N 0184934.67E 452758.68N 0184746.95E 144.0 FT	THR 290 FT TDZ 289 FT

Designations RWY NR	Slope of RWY-SWY	SWY dimensions (M)	CWY dimensions (M)	Strip dimensions (M)	RESA dimensions (M) and surface
1	7	8	9	10	11
11	Slope of RWY 11/29: 0°	Nil	Nil	2620 x 300	Length: 240 M Width: 90 M Surface: grass
29		Nil	Nil		Length: 240 M Width: 90 M Surface: grass

Designations RWY NR	Location and description of arresting system	OFZ	Remarks
1	12	13	14
11	Nil	Nil	Paved shoulders, width 7.5 M
29	Nil	Nil	Paved shoulders, width 7.5 M

LDOS AD 2.13 DECLARED DISTANCES

RWY Designator	TORA (M)	TODA (M)	ASDA (M)	LDA (M)	Remarks
1	2	3	4	5	6
11	2500	2500	2500	2500	Nil
	1850	1850	Nil	Nil	Intersection TWY A
	1573	1573	Nil	Nil	Intersection TWY B
29	2500	2500	2500	2500	Nil
	673	673	Nil	Nil	Intersection TWY A
	950	950	Nil	Nil	Intersection TWY B

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LDOS AD 2.14 APPROACH AND RUNWAY LIGHTING

RWY Designator	APCH LGT type / LEN / INTST	THR LGT colour / WBAR	VASIS (MEHT) PAPI	TDZ LGT LEN	RWY Centre Line LGT LEN / spacing / colour / INTST	RWY edge LGT LEN / spacing / colour / INTST	RWY End LGT Colour / WBAR	SWY LGT LEN (M) / Colour	Remarks
1	2	3	4	5	6	7	8	9	10
11	SALS (E) 420 M W VRB LIH	GRN VRB LIH	PAPI (52 FT) LEFT, 3°	Nil	Nil	2500 M 60 M W VRB LIH YCZ 600 M	RED VRB LIH	Nil	Nil
29	CAT I (A) 900 M W VRB LIH	GRN VRB LIH	PAPI (52 FT) LEFT, 3°	Nil	Nil	2500 M 60 M W VRB LIH YCZ 600 M	RED VRB LIH	Nil	Nil

LDOS AD 2.15 OTHER LIGHTING, SECONDARY POWER SUPPLY

1	ABN/IBN location, characteristics and hours of operation	Nil
2	LDI location and LGT Anemometer location and LGT	Nil Anemometer RWY11: position 115 M right of RCL, distance 374 M from (after) THR11, ICAO marked and lighted. Anemometer RWY29: position 137 M left of RCL, distance 301 M from (after) THR29, ICAO marked and lighted. WDI Position: 1151 M from THR11 and 91 M left from RCL, 1349 M from THR29 and 91 M right from RCL. Lighted.
3	TWY edge and centre line lighting	TWY A EDGE: BLU VRB LIL TWY B EDGE: BLU VRB LIL APRON TWY EDGE: BLU VRB LIL
4	Secondary power supply/switch-over time	available, switch-over time: 8 SEC
5	Remarks	RWY turn pad marking lights on turn pad THR 11 and on turn pad THR 29 are not available.

LDOS AD 2.16 HELICOPTER LANDING AREA

1	Coordinates TLOF or THR of FATO Geoid undulation	Nil
2	TLOF and/or FATO elevation M/FT	Nil
3	TLOF and FATO area dimensions, surface, strength, marking	Nil
4	True and MAG BRG of FATO	Nil
5	Declared distance available	Nil
6	APP and FATO lighting	Nil
7	Remarks	Area not defined. Parking positions are to be used in accordance with the aerodrome operator instructions.

LDOS AD 2.17 ATS AIRSPACE

1	Designation and lateral limits	CTR Osijek 453642N 0183557E 453027N 0185943E 452853N 0185922E Along the FIR boundary Zagreb/Beograd. 452140N 0185952E 451714N 0185645E 452614N 0183019E 453642N 0183557E
2	Vertical limits	3000 FT ALT / GND
3	Airspace classification	D
4	ATS unit call sign Language(s)	OSIJEK TOWER / OSIJEK TORANJ Croatian, English
5	Transition altitude	10000 FT MSL
6	Remarks	For airspace description outside LDOS ATS operational hours see AIP ENR 2.1 (Uncontrolled Airspace and CTA Zagreb). Due to possible unplanned extension of LDOS ATS operational hours all aircraft flying in uncontrolled airspace should maintain a continuous listening watch on Osijek TWR/APP frequency. REF AD 2.22

LDOS AD 2.18 ATS COMMUNICATION FACILITIES

Service designation	Call sign	Frequency	Hours of operation	Remarks
1	2	3	4	5
APP	OSIJEK PRILAZNA KONTROLA / OSIJEK APPROACH	118.800 MHZ	Upon NOTAM or AIP SUP	PRIMARY FREQ
		120.150 MHZ	Upon NOTAM or AIP SUP	ALTN FREQ
		121.500 MHZ	Upon NOTAM or AIP SUP	EMERG FREQ
TWR	OSIJEK TOWER / OSIJEK TORANJ	118.800 MHZ	Upon NOTAM or AIP SUP	PRIMARY FREQ
		120.150 MHZ	Upon NOTAM or AIP SUP	ALTN FREQ

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AD 2 AERODROMES

LDPL AD 2

LDPL AD 2.1 AERODROME LOCATION INDICATOR AND NAME

LDPL - AIRPORT PULA / Pula

LDPL AD 2.2 AERODROME GEOGRAPHICAL AND ADMINISTRATIVE DATA

1	ARP coordinates and site at AD	445336.72N 0135519.89E 088°/1476 M from THR 09
2	Direction and distance from (city)	067°, 6 KM from the centre of Pula
3	Elevation/Reference temperature	275 FT / 30.2°C (JUL)
4	Geoid undulation at AD ELEV PSN	142 FT
5	MAG VAR/Annual change	4°E (2019) / 0.15° increasing
6	AD Operator, address, telephone, telefax, AFS, SITA, e-mail, URL	Post: Zracna luka PULA d.o.o. Valtursko polje 210, p.p. 89 52100 Pula Phone: (+385 52) 530100 Fax: (+385 52) 550914 (+385 52) 550915 SITA: PUYAPXH Email: uprava@airport-pula.hr URL: http://www.airport-pula.hr
7	Types of traffic permitted (IFR/VFR)	IFR/VFR
8	Remarks	Nil

LDPL AD 2.3 OPERATIONAL HOURS

1	AD Operator	Upon NOTAM during Winter season. 0400 - 2000 UTC during Summer season.
2	Customs and immigration	As AD HR SER
3	Health and sanitation	As AD HR SER
4	AIS Briefing Office	H24 - Selfbriefing
5	ATS Reporting Office (ARO)	H24 - Central ARO Split; Phone: +385 21 205-444, Fax: +385 21 895-227
6	MET Briefing Office	H24
7	ATS	H24
8	Fuelling	As AD HR SER
9	Handling	As AD HR SER
10	Security	H24
11	De-icing	As AD HR SER
12	Remarks	All flights with a schedule approved outside AD HR SER in process of facilitation and coordination activities according to Council Regulation (EEC) 95/93 and IATA Calendar of Coordination Activities do not require AD Operator approval. Outside AD HR SER, upon AD Operator approval only, PPR sent via SITA PUYAPXH or via e-mail:operations@airport-pula.hr 24 HR before planned flight operations.

LDPL AD 2.4 HANDLING SERVICES AND FACILITIES

1	Cargo-handling facilities	2 cargo loader 7.5 tones/ 5.6 M 1 Fork lift 2 tones/ 3.2 M
2	Fuel/oil types	JET A1, AVGAS 100LL / Oil - Nil
3	Fuelling facilities/capacity	1 Fuel Trucks 63 000 L (A1) 1 Fuel Truck 40 000 L (A1) 1 Fuel Truck 18 000 L (A1) 1 Fuel Truck 4 000 L (AVGAS 100LL)
4	De-icing facilities	AVBL 1 truck, de/anti-icing fluid: TYPE IV
5	Hangar space for visiting aircraft	Nil
6	Repair facilities for visiting aircraft	Nil
7	Remarks	Nil

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LDPL AD 2.5 PASSENGER FACILITIES

1	Hotels	In the city.
2	Restaurants	In the city.
3	Transportation	Bus, taxi, rent a car at AD.
4	Medical facilities	First aid at AD. Hospitals in the city.
5	Bank and Post Office	In the city.
6	Tourist Office	In the city.
7	Remarks	NIL

LDPL AD 2.6 RESCUE AND FIRE FIGHTING SERVICES

1	AD category for fire fighting	CAT 9 See Remarks
2	Rescue equipment	3 Heavy fire fighting vehicle (12 000 L water, foam 1 500 L, powder 250 KG) 1 Heavy fire fighting vehicle (9 000 L water, foam 1 000 L)
3	Capability for removal of disabled aircraft	Airport Duty Manager working hours: 0400 - 2000 UTC during Summer season. Upon NOTAM during Winter season. Phone: +385 52 530 108 Fax: +385 52 550 925 Email: operations@airport-pula.hr 1 towing tractor - SCHOPF up to MTOW 420 000 KG. Towbars: A300, A310, A318, A319, A320, A321, B707, B717, B727, B737, B747, B757, B767, DC9, DC10, DHC-7, DHC-8, ATR42, ATR72, TU134. On request by external company: Mobile lifting cranes up to 180 000 KG.
4	Remarks	During Winter season: CAT 4 All confirmed scheduled traffic will be covered with adequate rescue and firefighting CAT. During Summer season: CAT 6 FM season start until 30 APR CAT 7 FM 01 MAY until season end. Higher rescue and fire fighting CAT, up to CAT 9, available on request, 24 HR PPR, sent via: SITA: PUYAPXH E-mail: operations@airport-pula.hr

LDPL AD 2.7 RUNWAY SURFACE CONDITION ASSESSMENT AND REPORTING, AND SNOW PLAN

1	Types of clearing equipment	NIL
2	Clearance priorities	NIL
3	Use of material for movement area surface treatment	NIL
4	Specially prepared winter runways	NIL
5	Remarks	GRF

LDPL AD 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS/POSITIONS DATA

1	Apron surface and strength	**SURFACE**		**STRENGTH**	
		ASPH		PCN 65/F/A/W/T	
2	Taxiway width, surface and strength	**TWY**	**WIDTH (M)**	**SURFACE**	**STRENGTH**
		A	23 M	ASPH	PCN 71/F/A/W/T
		B	23 M	ASPH	PCN 71/F/A/W/T
		C	23 M	ASPH	PCN 71/F/A/W/T
		D	23 M	ASPH	PCN 71/F/A/W/T
		E	23 M	ASPH	PCN 71/F/A/W/T
		F	23 M	ASPH	PCN 71/F/A/W/T
		G	23 M	ASPH	PCN 71/F/A/W/T
		H	23 M	ASPH	PCN 71/F/A/W/T
3	ACL location and elevation	Location: Apron Elevation: 64.28 M			
4	VOR checkpoints	See LDPL AD 2.24.1 ADC -1			
5	INS checkpoints	See LDPL AD 2.24.2 APDC -1			
6	Remarks	TWY shoulders: Width: 7.5 M Surface: grass On TWY curves and intersections judgemental oversteering method required for ACFT with wheelbase greater than 18.59 M.			

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LDPL AD 2.12 RUNWAY PHYSICAL CHARACTERISTICS

Designations RWY NR	TRUE BRG	Dimensions of RWY (M)	Strength (PCN) and surface of RWY and SWY	THR COORD RWY End COORD THR Geoid Undulation	THR elevation and highest elevation of TDZ of precision APP RWY
1	2	3	4	5	6
09	088.25°	2946 x 45	PCN 59/R/A/W/T ASPH	445335.27N 0135412.67E Nil 142 FT	THR 168 FT
27	268.28°			445338.16N 0135626.85E Nil 141.6 FT	THR 275 FT

Designations RWY NR	Slope of RWY-SWY	SWY dimensions (M)	CWY dimensions (M)	Strip dimensions (M)	RESA dimensions (M)
1	7	8	9	10	11
09	Slope of RWY: 0.6% (0 - 1080 M) 1.1% (1080 - 2160 M) 1.8% (2160 - 2946 M)	Nil	Nil	3066 x 300	Length: 240 M Width: 90 M
27	Slope of RWY: -1.8% (0 - 786 M) -1.1% (786 - 1866 M) -0.6% (1866 - 2946 M)	Nil	Nil		Length: 240 M Width: 90 M

Designations RWY NR	Location and description of arresting system	OFZ	Remarks
1	12	13	14
09	Nil	Nil	RWY shoulders: Width: 7.5 M Surface: grass For RWY slope see AOC RWY 09/27 additionally.
27	Nil	Nil	RWY shoulders and RWY turn pad shoulders: Width: 7.5 M Surface: grass For RWY slope see AOC RWY 09/27 additionally.

LDPL AD 2.13 DECLARED DISTANCES

RWY Designator	TORA (M)	TODA (M)	ASDA (M)	LDA (M)	Remarks
1	2	3	4	5	6
09	2946	2946	2946	2946	Nil
	1692	Nil	Nil	Nil	Intersection TWY C

RWY Designator	TORA (M)	TODA (M)	ASDA (M)	LDA (M)	Remarks
1	2	3	4	5	6
27	2946	2946	2946	2946	Nil
	1992	Nil	Nil	Nil	Intersection TWY D
	2491	Nil	Nil	Nil	Intersection TWY E

LDPL AD 2.14 APPROACH AND RUNWAY LIGHTING

RWY Designator	APCH LGT type / LEN / INTST	THR LGT colour / WBAR	VASIS (MEHT) PAPI	TDZ LGT LEN	RWY Centre Line LGT LEN / spacing / colour / INTST	RWY edge LGT LEN / spacing / colour / INTST	RWY End LGT Colour / WBAR	SWY LGT LEN (M) / Colour	Remarks
1	2	3	4	5	6	7	8	9	10
09	420 M	G VRB LIH	PAPI 3° 18.6 M	Nil	Nil	VRB YCZ 600 M W LIH	R VRB LIH	Nil	Nil
27	420 M	G VRB LIH	PAPI 3° 15.8 M	Nil	Nil	VRB YCZ 600 M W LIH	R VRB LIH	Nil	Nil

LDPL AD 2.15 OTHER LIGHTING, SECONDARY POWER SUPPLY

1	ABN/IBN location, characteristics and hours of operation	Nil
2	LDI location and LGT Anemometer location and LGT	Nil 473 M from THR 09, NIL 440 M from THR 27, NIL WDI:1465 M after THR 09. on the left side, lighted 1481 M after THR 27. on the right side, lighted
3	TWY edge and centre line lighting	TWY A EDGE TWY B EDGE TWY C EDGE TWY D EDGE TWY E EDGE TWY F EDGE TWY G EDGE TWY H EDGE
4	Secondary power supply/switch-over time	Secondary power supply to all lighting at AD. Switch-over time: 10 SEC.
5	Remarks	Nil

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LDPL AD 2.16 HELICOPTER LANDING AREA

1	Coordinates TLOF or THR of FATO Geoid undulation	Nil
2	TLOF and/or FATO elevation M/FT	Nil
3	TLOF and FATO area dimensions, surface, strength, marking	Nil
4	True and MAG BRG of FATO	Nil
5	Declared distance available	Nil
6	APP and FATO lighting	Nil
7	Remarks	Area not defined. Parking positions used according to Airport authorities.

LDPL AD 2.17 ATS AIRSPACE

1	Designation and lateral limits	CTR Pula 445758N 0134047E 450339N 0134653E 450349N 0141115E 444709N 0141152E 444229N 0134359E 444800N 0134107E 445758N 0134047E
2	Vertical limits	2500 FT ALT / GND
3	Airspace classification	D
4	ATS unit call sign Language(s)	PULA TORANJ / PULA TOWER Croatian, English
5	Transition altitude	10000 FT MSL
6	Remarks	Nil

LDPL AD 2.18 ATS COMMUNICATION FACILITIES

Service designation	Call sign	Frequency	Hours of operation	Remarks
1	2	3	4	5
APP	PULA RADAR	124.600 MHZ	H24	If no contact, contact Pula Radar on 127.675 MHZ
		127.675 MHZ	H24	If no contact, contact Pula Radar on 124.600 MHZ
		121.500 MHZ	H24	EMERG FREQ

Service designation	Call sign	Frequency	Hours of operation	Remarks
1	2	3	4	5
TWR	PULA TORANJ / PULA TOWER	132.000 MHZ	H24	Primary FREQ If no contact on TWR frequency, contact Pula Radar.
		120.000 MHZ	H24	ALTN FREQ If no contact on TWR frequency, contact Pula Radar.
ATIS	PULA ATIS	129.150 MHZ	As AD HR SER	

LDPL AD 2.19 RADIO NAVIGATION AND LANDING AIDS

Type of aid CAT of ILS/MLS (VOR/ILS/MLS VAR)	ID	Frequency	Hours of operation	Site of transmitting antenna coordinates	Elevation of DME transmitting antenna	Remarks
1	2	3	4	5	6	7
VOR/DME (4° E/2019)	NTL	117.350 MHZ (CH 120Y)	H24	443359.44N 0142327.79E	190 FT	Coverage 80 NM, except between QDR 330°-120° where coverage is 40 NM. MRA at 40 NM: QDR 020°-120° 10000 FT QDR 120°-330° 5000 FT QDR 330°-020° 12000 FT
VOR/DME (4°E/2019)	PUL	111.25 MHZ CH49Y	H24	445332.52N 0135505.23E	215 FT	Coverage 100 NM except in QDR 309°-024°:Unsatisfactory VOR/ DME PUL power density due to terrain (Flight profile: orbit flight, radius 40NM, 3000FT to 6500FT QNH).
DME	LSJ	CH21Y	H24	443057.23N 0142927.66E	722 FT	Coverage 80 NM except BTN QDR 044°-074° clockwise and QDR 104°-114° clockwise, where unsatisfactory power density and reduced coverage due to terrain (Flight profile: Orbit flight, radius 40 NM, 8000 FT QNH).
NDB	CRE	433 KHZ	H24	445410.37N 0142459.57E		Range 50 NM
NDB	KAV	265 KHZ	H24	445343.27N 0140029.66E		084°MAG/2.88 NM from THR 27. MRA at 25 NM: sector 070°-310° 5000 FT sector 310°-070° 7000 FT
NDB	LOS	429 KHZ	H24	443137.55N 0142822.25E		118°MAG/4.10 NM from LDLO THR 02. Range 50 NM
NDB	PLA	351.5 KHZ	H24	445321.15N 0134512.66E		264°MAG/6.41 NM from THR 09. Coverage 50 NM.

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Type of aid CAT of ILS/MLS (VOR/ILS/MLS VAR)	ID	Frequency	Hours of operation	Site of transmitting antenna coordinates	Elevation of DME transmitting antenna	Remarks
1	2	3	4	5	6	7
NDB	VRS	369 KHZ	H24	451236.66N 0133856.31E		Range 25 NM
LOC 27	IPU	111.5 MHZ	H24	445335.03N 0135401.39E		ILS CAT I LOC coverage 17 NM MRA 3000 FT LOC coverage 25 NM MRA 4000 FT
GP 27		332.9 MHZ	H24	445333.87N 0135607.91E		3.2°, RDH 15.85 M (52 FT)
MM27	Dots-Dashes	75 MHZ	H24	445339.18N 0135712.92E		From THR 27 = 0.55 NM Intersect heights: 223.1 FT
OM27	Dashes-Dashes	75 MHZ	H24	445343.28N 0140029.09E		From THR 27 = 2.87 NM Intersect heights: 1036.8 FT

LDPL AD 2.20 LOCAL AERODROME REGULATIONS

ATC DEP clearance and DEP INFO are available on Pula TWR FREQ 15 MIN before start up.

WARNING: Gusts, wind shear and turbulence can be expected on final approach to/climb out from RWY 09 in conditions of strong east-north-easterly winds.

LDPL AD 2.20.1 CODE LETTER E AND FOUR-ENGINE AIRCRAFT OPERATION

Prior and after code letter E ACFT landing, taxiing or departure, RWY and TWY will be checked by responsible department.
Prior and after four engine ACFT landing, taxiing or departure RWY and TWY (including shoulders) will be checked by responsible department.
It is recommended to use outer engines on idle power during taxiing.

Recommended safety distances (4 M) are not met on TWY curves and intersections with other TWY and RWY. Judgemental oversteering method required for ACFT with wheelbase greater than 18.59 M. Extra caution advise while entering/exiting TWY B and TWY E from/to RWY.

During taxiing on RWY 27 turn pad the nose wheel steering angle exceeds 45 DEG. A slow taxi speed is recommended. Turning not possible for ACFT wheel base more than 26.2 M.

It is recommended to use asymmetric thrust when turning on turn pad.
It is not allowed to use TWY F for code letter E ACFT.

List of ACFT approved to operate with higher aerodrome reference code letter	
Airbus A330-300	Boeing 747-400
Airbus A330-900	Boeing 767-400
Airbus A340-200	Boeing 777-200
Airbus A340-300	Boeing 777-200LR
Airbus A340-500	Boeing 777-300
Airbus A350-900	Boeing 777-300ER
	Boeing 787-800
	Boeing 787-900
	Boeing 787-10 Dreamliner

LDPL AD 2.21 NOISE ABATEMENT PROCEDURES

NIL

LDPL AD 2.22 FLIGHT PROCEDURES

SID RWY 09

Calculation of the SIDs is based on an all-engines operative minimum net climb gradient of 4.4 per cent (267 FT/NM).
Assume minimum net climb gradient of 3.3 per cent (201 FT/NM) after passing 500 FT QNH.
WARNING: Close-in obstacles. See inset on the chart.

SID RWY 09				
Designator	Route	After take off		Remarks
		Climb initially	Contact	
PEVAL1A	PEVAL ONE ALPHA DEPARTURE Climb straight ahead. At KAV NDB or 3.8 DME PUL turn LEFT to intercept QDR 005° KAV and continue climb. At 18.5 DME PUL turn LEFT to intercept QDM 272° VRS to VRS NDB. At VRS NDB turn RIGHT on QDR 286° VRS climbing to PEVAL.	5000 FT	After passing 1000 FT, contact Pula Radar on 127.675 MHZ	Cross 18.5 DME PUL at or above 9000 FT AMSL.
GIRDA6D	GIRDA SIX DELTA DEPARTURE Climb straight ahead. At KAV NDB or 3.8 DME PUL turn LEFT to intercept QDR 005° KAV climbing to GIRDA.	5000 FT	After passing 1000 FT, contact Pula Radar on 127.675 MHZ	Cross 18.5 DME PUL at or above 9000 FT AMSL.
RJK5C	RIJEKA FIVE CHARLIE DEPARTURE Climb straight ahead. At KAV NDB or 3.8 DME PUL turn LEFT to intercept QDR 005° KAV and continue climb. After 18.5 DME PUL follow ATC RADAR vector RJK.	5000 FT	After passing 1000 FT, contact Pula Radar on 127.675 MHZ	Cross 18.5 DME PUL at or above 9000 FT AMSL.
OBALA1A	OBALA ONE ALPHA DEPARTURE Climb straight ahead on QDM 084° CRE. At CRE NDB continue on QDR 083° CRE climbing to OBALA.	5000 FT	After passing 1000 FT, contact Pula Radar on 127.675 MHZ	
LOS5H	LOSINJ FIVE HOTEL DEPARTURE Climb straight ahead. At KAV NDB or 3.8 DME PUL turn RIGHT, intercept bearing 134° KAV NDB climbing to LOS NDB.	5000 FT	After passing 1000 FT, contact Pula Radar on 127.675 MHZ	

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LDPL AD 2.24 CHARTS RELATED TO AN AERODROME

Name	Page
Aerodrome Chart - ICAO	LDPL AD 2.24.1 ADC -1
Aircraft Parking/Docking Chart - ICAO	LDPL AD 2.24.2 APDC -1
Aerodrome Ground Movement Chart – ICAO	*NOT AVBL*
Aerodrome Obstacle Chart - ICAO Type A RWY 09-27	LDPL AD 2.24.4 AOC RWY 09/27 -1
Aerodrome Terrain and Obstacle Chart – ICAO (Electronic)	*NOT AVBL*
Precision Approach Terrain Chart – ICAO	*NOT AVBL*
Area Chart – ICAO (departure and transit routes)	*NOT AVBL*
Standard Departure Chart - Instrument - ICAO RWY 09	LDPL AD 2.24.8 SID RWY 09 -1
Standard Departure Chart - Instrument - ICAO RNAV RWY 09	LDPL AD 2.24.8 SID RNAV RWY 09 -1
Standard Departure Chart - Instrument - ICAO RWY 27	LDPL AD 2.24.8 SID RWY 27 -1
Standard Departure Chart - Instrument - ICAO RNAV RWY 27	LDPL AD 2.24.8 SID RNAV RWY 27 -1
Area Chart – ICAO (arrival and transit routes)	*NOT AVBL*
Standard Arrival Chart - Instrument - ICAO RWY 09	LDPL AD 2.24.10 STAR RWY 09 -1
Standard Arrival Chart - Instrument - ICAO RWY 27	LDPL AD 2.24.10 STAR RWY 27 -1
Standard Arrival Chart - Instrument - ICAO RNAV RWY 09	LDPL AD 2.24.10 STAR RNAV RWY 09 -1
Standard Arrival Chart - Instrument - ICAO RNAV RWY 27	LDPL AD 2.24.10 STAR RNAV RWY 27 -1
ATC Surveillance Minimum Altitude Chart - ICAO	LDPL AD 2.24.11 ATCSMAC -1
Instrument Approach Chart - ICAO VOR RWY 09	LDPL AD 2.24.12 IAC VOR RWY 09 -1
Instrument Approach Chart - ICAO VOR RWY 27	LDPL AD 2.24.12 IAC VOR RWY 27 -1
Instrument Approach Chart - ICAO ILS y or LOC y RWY 27	LDPL AD 2.24.12 IAC ILS y or LOC y RWY 27 -1
Instrument Approach Chart - ICAO ILS z or LOC z RWY 27	LDPL AD 2.24.12 IAC ILS z or LOC z RWY 27 -1
Instrument Approach Chart - ICAO RNP RWY 09	LDPL AD 2.24.12 IAC RNP RWY 09 - 1
Instrument Approach Chart - ICAO RNP RWY 27	LDPL AD 2.24.12 IAC RNP RWY 27 - 1
Visual Approach Chart - ICAO	*NOT AVBL*
Visual Operation Chart	LDPL AD 2.24.13 VOC -1
Bird concentrations	LDPL AD 2.24.14 BC -1

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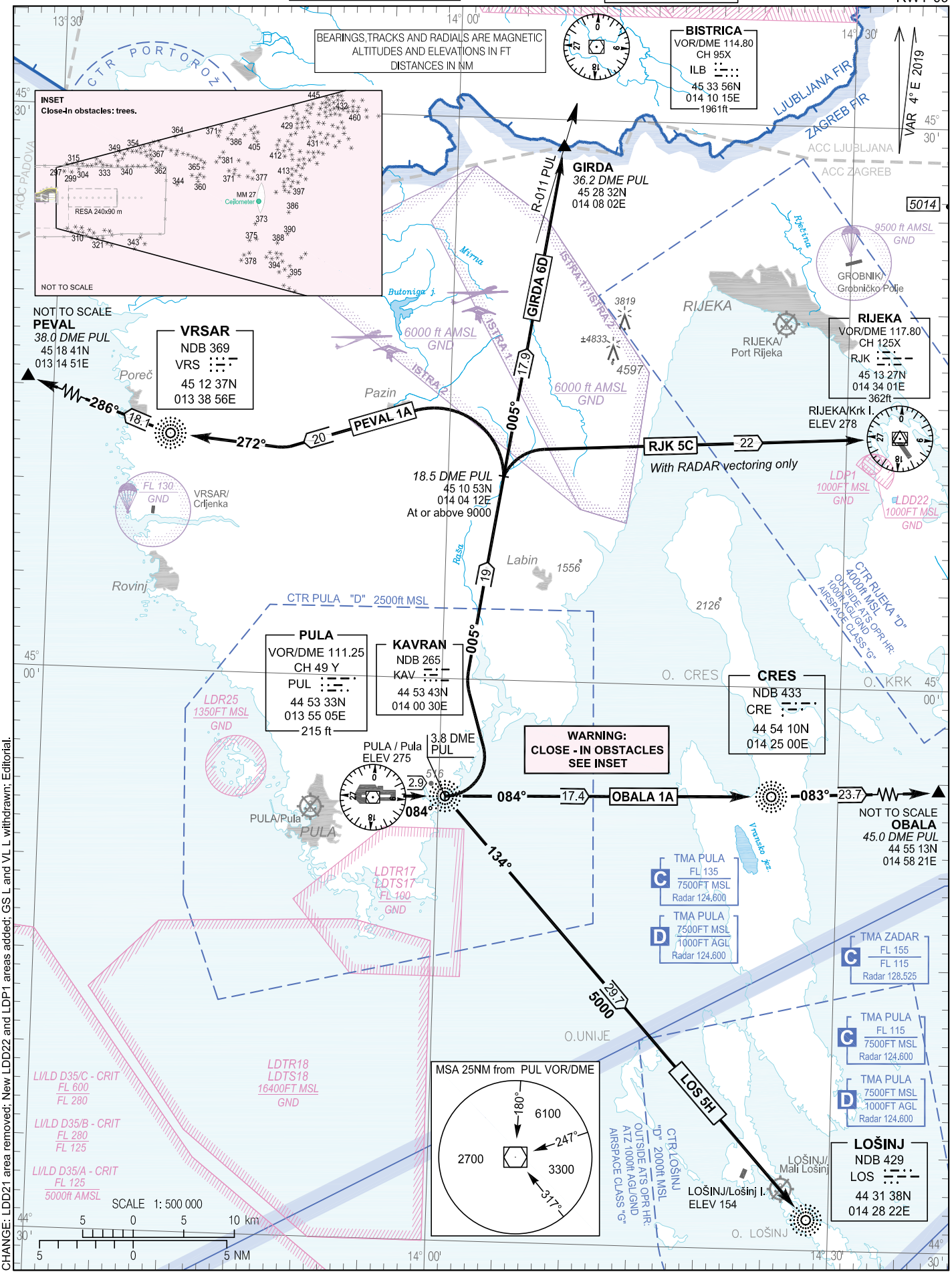
STANDARD DEPARTURE CHART
INSTRUMENT (SID) - ICAO

TRANSITION ALTITUDE
10 000

PULA ATIS	129.150
PULA TOWER	132.000
PULA RADAR	127.675 124.600

PULA / Pula
CROATIA
RWY 09



CHANGE: LDD21 area removed; New LDD22 and LDP1 areas added; GS L and VL L withdrawn; Editorial.

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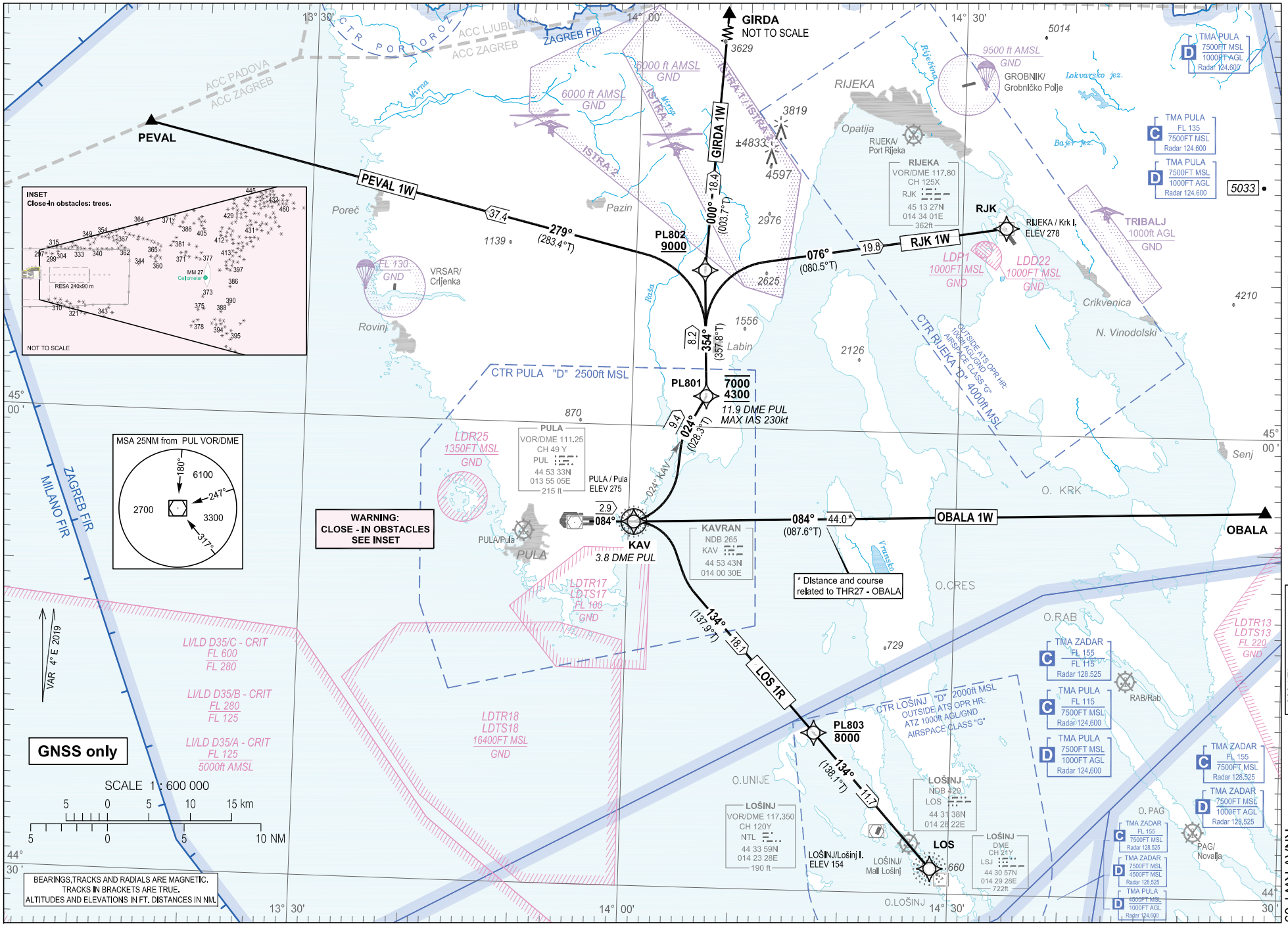
STANDARD DEPARTURE CHART
INSTRUMENT (SID) - ICAO

TRANSITION ALTITUDE
10 000

PULA / Pula
CROATIA
RNAV RWY 09

PULA ATIS	129.150
PULA TOWER	132.000
PULA RADAR	127.675
	124.600

CHANGE: LDD21 area removed; New LDD22 and LDP1 areas added; Editorial.



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PULA/ Pula
CROATIA
RNAV RWY 09

GENERAL INFORMATION AND REQUIREMENTS FOR ALL SIDs
- Calculation of the SIDs is based on an all-engines operative minimum net climb gradient of 3.3 per cent (201 FT/NM). Where a greater climb gradient for a specific SID (or part of SID) is necessary, this is indicated in the tabular description of the route.
- After take-off, climb initially to 5000 FT. After passing 1000 FT, contact Pula Radar on 127.675 MHZ.
- Caution: Close-in obstacles. See inset on the chart.

WARNING: Back-up conventional (NON-RNAV) procedure, in case of loss of RNAV 1 capability or RNAV system failure, below minimum radar vectoring altitude for RNAV SIDs PEVAL 1W, GIRDA 1W and RJK 1W only:
Climb straight ahead. At KAV NDB or 3.8 DME PUL turn LEFT climbing to intercept and follow QDR 024° KAV NDB to 11.9 DME PUL. Cross 11.9 DME PUL at or above 4300 FT AMSL, but at or below 7000 FT AMSL. After crossing 11.9 DME PUL proceed via RNAV SID flight procedure filed in FPL or according to ATC instruction. MAX IAS 230 kt. MNM PDG 4.4% (267 FT/NM) to 900 FT AMSL.

LDPL RNAV STANDARD INSTRUMENT DEPARTURE RWY 09

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	PEVAL 1W	CF	KAV	Y	084° (088.3°T)	4°E	2.9	-	-	-	MNM PDG 4.4% (267 FT/NM) to 900 FT AMSL	RNAV 1
020		TF	PL801	-	024° (028.3°T)	4°E	9.4	L	-7000 +4300	-230		
030		TF	PL802	-	354° (357.8°T)	4°E	8.2	-	+9000	-		
040		TF	PEVAL	-	279° (283.4°)	4°E	37.4	-	-	-		
010	GIRDA 1W	CF	KAV	Y	084° (088.3°T)	4°E	2.9	-	-	-	MNM PDG 4.4% (267 FT/NM) to 900 FT AMSL	RNAV 1
020		TF	PL801	-	024° (028.3°T)	4°E	9.4	L	-7000 +4300	-230		
030		TF	PL802	-	354° (357.8°T)	4°E	8.2	-	+9000	-		
040		TF	GIRDA	-	000° (003.7°)	4°E	18.4	-	-	-		
010	RJK 1W	CF	KAV	Y	084° (088.3°T)	4°E	2.9	-	-	-	MNM PDG 4.4% (267 FT/NM) to 900 FT AMSL	RNAV 1
020		TF	PL801	-	024° (028.3°T)	4°E	9.4	L	-7000 +4300	-230		
030		TF	PL802	-	354° (357.8°T)	4°E	8.2	-	+9000	-		
040		TF	RJK	-	076° (080.5°)	4°E	19.8	-	-	-		

LDPL RNAV STANDARD INSTRUMENT DEPARTURE RWY 09

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	OBALA 1W	CF	OBALA	-	084° (087.6°)	4°E	44.0	-	-	-	MNM PDG 4.4% (267 FT/NM) to 900 FT AMSL	RNAV 1

CHANGE: LDD21 area removed; New LDD22 and LDP1 areas added; Editorial.

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CROATIA
RNAV RWY 09

WARNING: Back-up conventional (NON-RNAV) procedure, in case of loss of RNAV 1 capability or RNAV system failure, below minimum radar vectoring altitude for RNAV SID LOS 1R only:
Climb straight ahead. At KAV NDB or 3.8 DME PUL turn RIGHT, intercept bearing QDR 134° KAV NDB climbing to LOS NDB. On passing 3500 FT AMSL proceed via RNAV SID LOS 1R or according to ATC instruction. MNM PDG 4.4% (267 FT/NM) to 900 FT AMSL.

LDPL RNAV STANDARD INSTRUMENT DEPARTURE RWY 09

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	LOS 1R	CF	KAV	Y	084° (088.3°T)	4°E	2.9	-	-	-	MNM PDG 4.4% (267 FT/NM) to 900 FT AMSL	RNAV 1
020		TF	PL803	-	134° (137.9°T)	4°E	18.1	-	-8000	-		
030		TF	LOS	-	134° (138.1°T)	4°E	11.7	-	-	-		

Waypoint coordinates		
Waypoint name	WGS-84 latitude	WGS-84 longitude
KAV	445343.27N	0140029.66E
LOS	443137.55N	0142822.25E
RJK	451326.85N	0143401.06E
GIRDA	452832N	0140802E
OBALA	445513N	0145821E
PEVAL	451841N	0131451E
PL801	450201.6N	0140648.3E
PL802	451013.5N	0140621.5E
PL803	444018.1N	0141729.2E

CHANGE: LDD21 area removed; New LDD22 and LDP1 areas added; Editorial.

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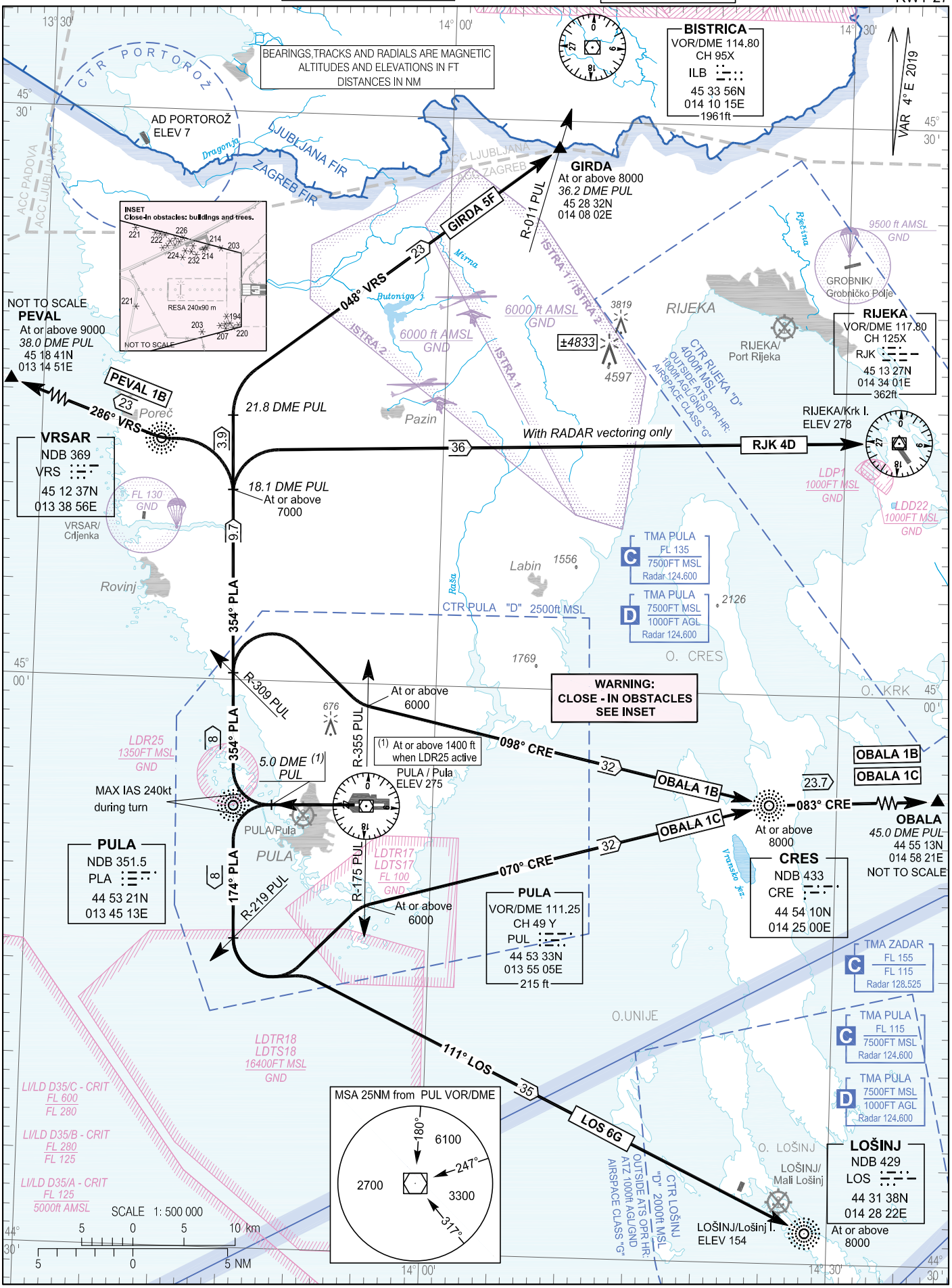
STANDARD DEPARTURE CHART
INSTRUMENT (SID) - ICAO

TRANSITION ALTITUDE
10 000

PULA ATIS	129.150
PULA TOWER	132.000
PULA RADAR	127.675
	124.600

PULA / Pula
CROATIA
RWY 27



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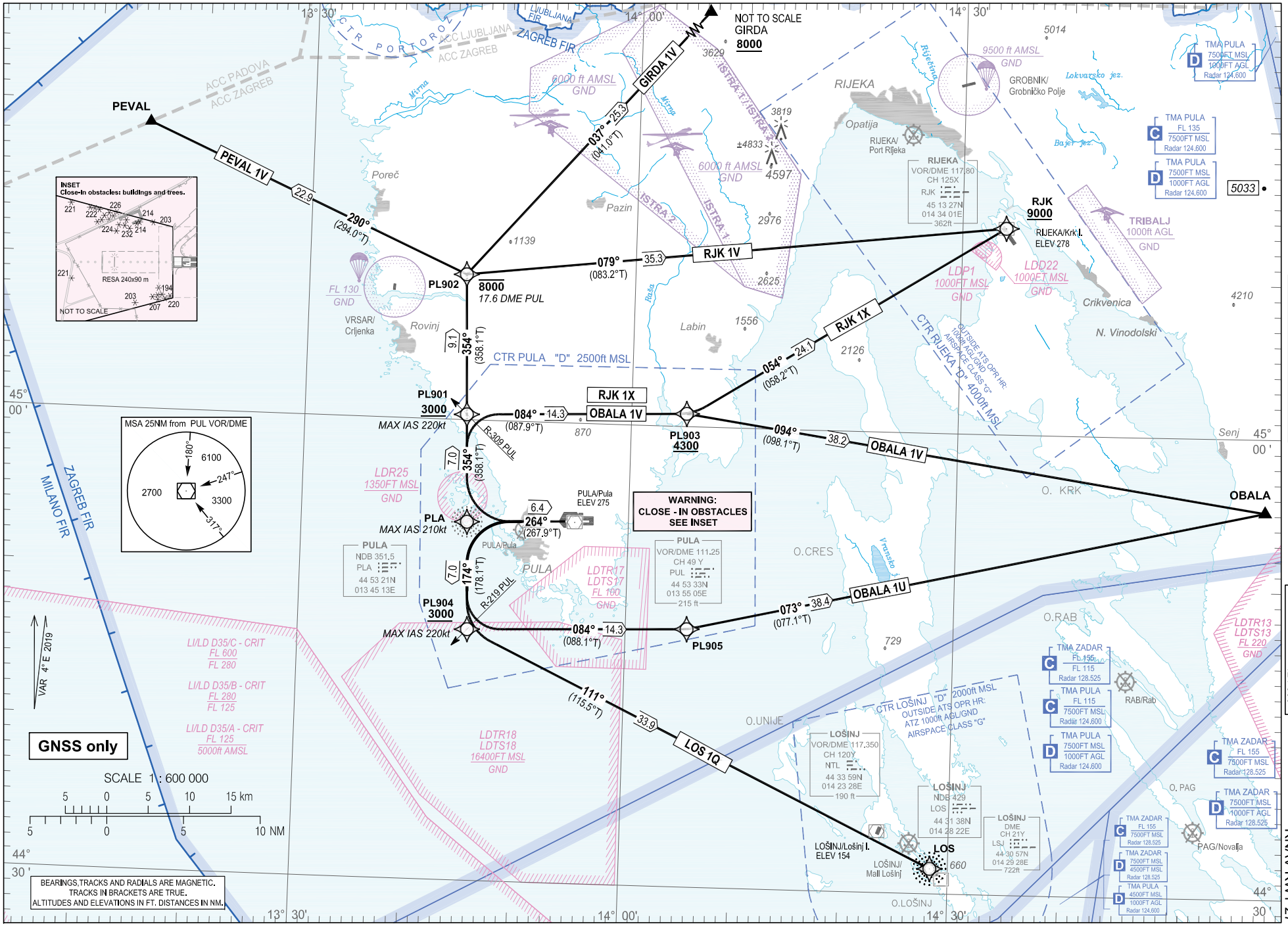
STANDARD DEPARTURE CHART
INSTRUMENT (SID) - ICAO

TRANSITION ALTITUDE
10 000

PULA / Pula
CROATIA
RNAV RWY 27

PULA ATIS	129.150
PULA TOWER	132.000
PULA RADAR	127.675
	124.600

CHANGE: LDD21 area removed; New LDD22 and LDP1 areas added; Editorial.



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PULA/ Pula
CROATIA
RNAV RWY 27

GENERAL INFORMATION AND REQUIREMENTS FOR ALL SIDs
- Calculation of the SIDs is based on an all-engines operative minimum net climb gradient of 3.3 per cent (201 FT/NM). Where a greater climb gradient for a specific SID (or part of SID) is necessary, this is indicated in the tabular description of the route.
- After take-off, climb initially to 5000 FT. After passing 1000 FT, contact Pula Radar on 127.675 MHZ.
- Caution: Close-in obstacles. See inset on the chart.

WARNING: Back-up conventional (NON-RNAV) procedure, in case of loss of RNAV 1 capability or RNAV system failure, below minimum radar vectoring altitude for RNAV SIDs PEVAL 1V, GIRDA 1V, RJK 1V, RJK 1X and OBALA 1V only:
Climb straight ahead. At PLA NDB turn RIGHT (MAX IAS 210 KT) climbing to intercept and follow QDR 354° PLA NDB. Cross R-309 PUL at or above 3000 FT AMSL. After passing 3000 FT AMSL proceed via RNAV SID flight procedure filed in FPL or according to ATC instruction.

LDPL RNAV STANDARD INSTRUMENT DEPARTURE RWY 27

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	PEVAL 1V	CF	PLA	-	264° (267.9°T)	4°E	6.4	-	-	-210	-	RNAV 1
020		TF	PL901	-	354° (358.1° T)	4°E	7.0	R	+3000	-220		
030		TF	PL902	-	354° (358.1°T)	4°E	9.1	-	-8000	-		
040		TF	PEVAL	-	290° (294.0°T)	4°E	22.9	-	-	-		
010	GIRDA 1V	CF	PLA	-	264° (267.9°T)	4°E	6.4	-	-	-210	-	RNAV 1
020		TF	PL901	-	354° (358.1°T)	4°E	7.0	R	+3000	-220		
030		TF	PL902	-	354° (358.1°T)	4°E	9.1	-	-8000	-		
040		TF	GIRDA	-	037° (041.0°T)	4°E	25.3	-	+8000	-		
010	RJK 1V	CF	PLA	-	264° (267.9°T)	4°E	6.4	-	-	-210	-	RNAV 1
020		TF	PL901	-	354° (358.1° T)	4°E	7.0	R	+3000	-220		
030		TF	PL902	-	354° (358.1°T)	4°E	9.1	-	-8000	-		
040		TF	RJK	-	079° (083.2°T)	4°E	35.3	-	+9000	-		
010	RJK 1X	CF	PLA	-	264° (267.9°T)	4°E	6.4	-	-	-210	-	RNAV 1
020		TF	PL901	-	354° (358.1° T)	4°E	7.0	R	+3000	-220		
030		TF	PL903	-	084° (087.9°T)	4°E	14.3	R	+4300	-		
040		TF	RJK	-	054° (058.2° T)	4°E	24.1	-	+9000	-		
010	OBALA 1V	CF	PLA	-	264° (267.9°T)	4°E	6.4	-	-	-210	-	RNAV 1
020		TF	PL901	-	354° (358.1° T)	4°E	7.0	R	+3000	-220		
030		TF	PL903	-	084° (087.9°T)	4°E	14.3	R	+4300	-		
040		TF	OBALA	-	094° (098.1° T)	4°E	38.2	-	-	-		

CHANGE: LDD21 area removed; New LDD22 and LDP1 areas added; Editorial.

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WARNING: Back-up conventional (NON-RNAV) procedure, in case of loss of RNAV 1 capability or RNAV system failure, below minimum radar vectoring altitude for RNAV SIDs OBALA 1U and LOS 1Q only:
Climb straight ahead. At PLA NDB turn LEFT (MAX IAS 210kt) climbing to intercept and follow QDR 174° PLA NDB. Cross R-219 PUL at or above 3000FT AMSL. After passing 3000FT proceed via RNAV SID flight procedure filed in FPL or according to ATC instruction.

LDPL RNAV STANDARD INSTRUMENT DEPARTURE RWY 27

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	OBALA 1U	CF	PLA	-	264° (267.9°T)	4°E	6.4	-	-	-210	-	RNAV 1
020		TF	PL904	-	174° (178.1°T)	4°E	7.0	-	+3000	-220		
030		TF	PL905	-	084° (088.1°T)	4°E	14.3	-	-	-		
040		TF	OBALA	-	073° (077.1°T)	4°E	38.4	-	-	-		
010	LOS 1Q	CF	PLA	-	264° (267.9°T)	4°E	6.4	-	-	-210	-	RNAV 1
020		TF	PL904	-	174° (178.1°T)	4°E	7.0	-	+3000	-220		
030		TF	LOS	-	111° (115.5°T)	4°E	33.9	-	-	-		

Waypoint coordinates		
Waypoint name	WGS-84 latitude	WGS-84 longitude
LOS	443137.55N	0142822.25E
PLA	445321.15N	0134512.66E
RJK	451326.85N	0143401.06E
GIRDA	452832N	0140802E
OBALA	445513N	0145821E
PEVAL	451841N	0131451E
PL901	450020.8N	0134452.6E
PL902	450928.0N	0134426.3E
PL903	450050.1N	0140504.0E
PL904	444621.4N	0134532.6E
PL905	444648.3N	0140537.3E

CHANGE: LDD21 area removed; New LDD22 and LDP1 areas added; Editorial.

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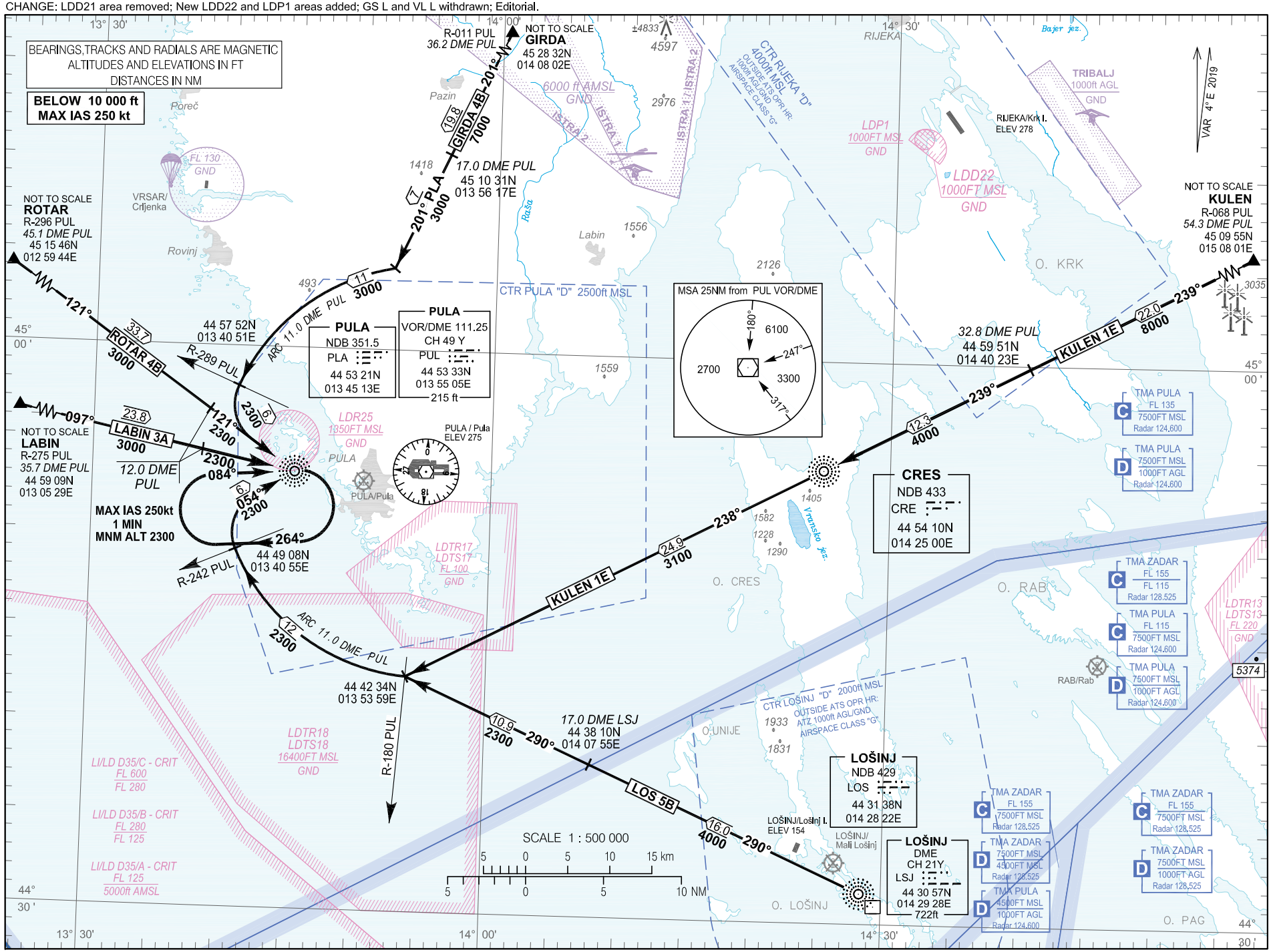
CHANGE: LDD21 area removed; New LDD22 and LDP1 areas added; GS L and VL L withdrawn; Editorial.



TRANSITION ALTITUDE
10 000

PULA ATIS	129.150
PULA RADAR	127.675
	124.600
PULA TOWER	132.000

PULA / Pula
CROATIA
RWY 09

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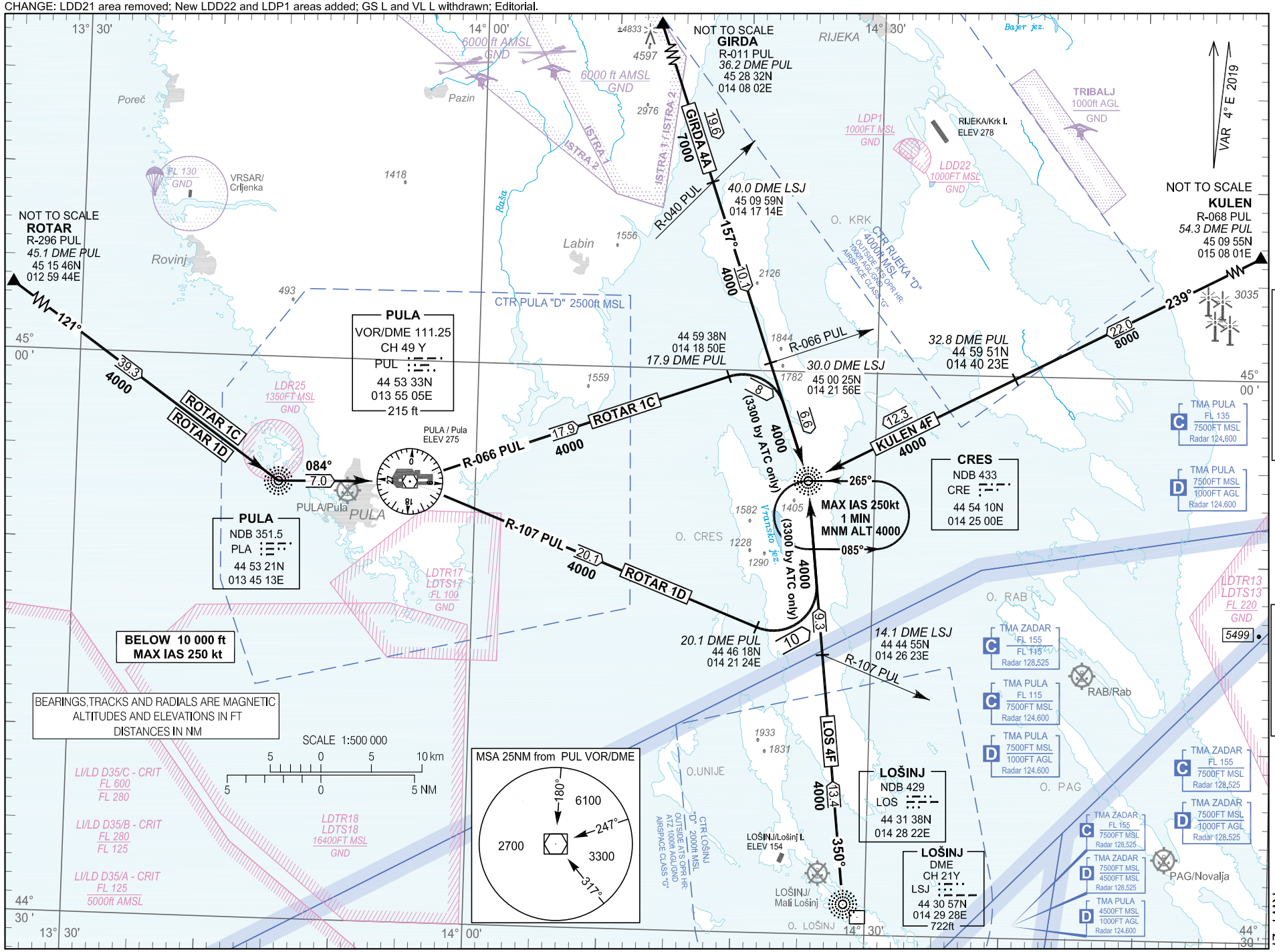
STANDARD ARRIVAL CHART
INSTRUMENT (STAR) - ICAO

CHANGE: LDD21 area removed; New LDD22 and LDP1 areas added; GS L and VL L withdrawn; Editorial.



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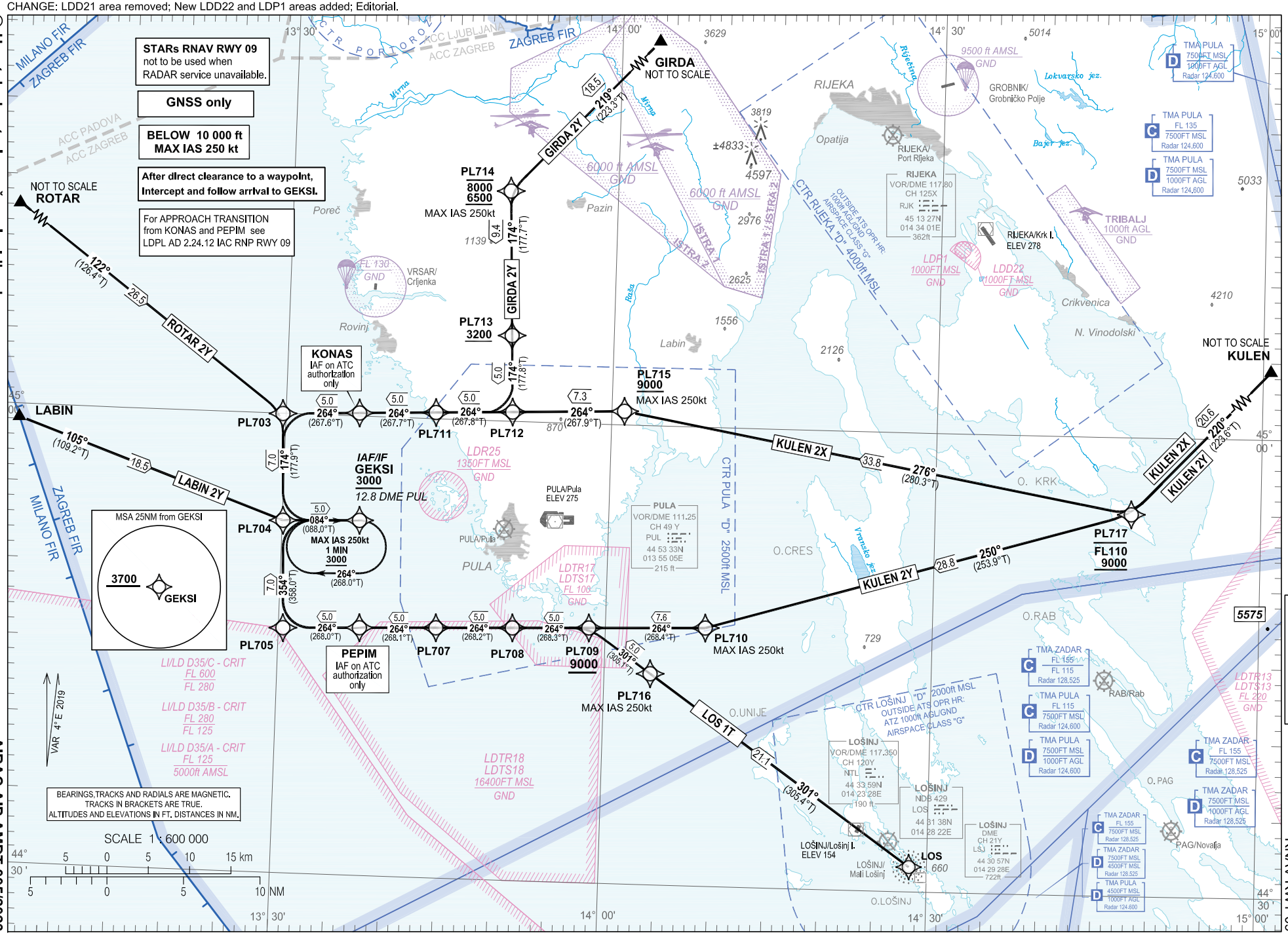
CHANGE: LDD21 area removed; New LDD22 and LDP1 areas added; Editorial.



TRANSITION ALTITUDE
10 000

PULA ATIS	129.150
PULA RADAR	127.675
	124.600
PULA TOWER	132.000

PULA / Pula
CROATIA
RNAV RWY 09

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RNAV RWY 09

LDPL RNAV STANDARD ARRIVAL RWY 09

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	ROTAR 2Y	IF	ROTAR	-	-	4°E	-	-	-	-	-	RNAV 1
020		TF	PL703	-	122° (126.4°T)	4°E	26.5	-	-	-	-	
030		TF	PL704	-	174° (177.9°T)	4°E	7.0	-	-	-	-	
040		TF	GEKSI	-	084° (088.0°T)	4°E	5.0	-	+3000	-	IAF/IF	
010	GIRDA 2Y	IF	GIRDA	-	-	4°E	-	-	-	-	-	RNAV 1
020		TF	PL714	-	219° (223.3°T)	4°E	18.5	-	-8000 +6500	-250	-	
030		TF	PL713	-	174° (177.7°T)	4°E	9.4	-	+3200	-	-	
040		TF	PL712	-	174° (177.8°T)	4°E	5.0	-	-	-	-	
050		TF	PL711	-	264° (267.8°T)	4°E	5.0	-	-	-	-	
060		TF	KONAS	-	264° (267.7°T)	4°E	5.0	-	-	-	IAF on ATC authorization only	
070		TF	PL703	-	264° (267.6°T)	4°E	5.0	-	-	-	-	
080		TF	PL704	-	174° (177.9°T)	4°E	7.0	-	-	-	-	
090		TF	GEKSI	-	084° (088.0°T)	4°E	5.0	-	+3000	-	IAF/IF	
010	KULEN 2X	IF	KULEN	-	-	4°E	-	-	-	-	-	RNAV 1
020		TF	PL717	-	220° (223.6T)	4°E	20.6	-	-FL110 +9000	-	-	
030		TF	PL715	-	276° (280.3°T)	4°E	33.8	-	+9000	-250	-	
040		TF	PL712	-	264° (267.9°T)	4°E	7.3	-	-	-	-	
050		TF	PL711	-	264° (267.8°T)	4°E	5.0	-	-	-	-	
060		TF	KONAS	-	264° (267.7°T)	4°E	5.0	-	-	-	IAF on ATC authorization only	
070		TF	PL703	-	264° (267.6°T)	4°E	5.0	-	-	-	-	
080		TF	PL704	-	174° (177.9°T)	4°E	7.0	-	-	-	-	
090		TF	GEKSI	-	084° (088.0°T)	4°E	5.0	-	+3000	-	IAF/IF	

CHANGE: LDD21 area removed; New LDD22 and LDP1 areas added; Editorial.

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LDPL RNAV STANDARD ARRIVAL RWY 09

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	KULEN 2Y	IF	KULEN	-	-	4°E	-	-	-	-	-	RNAV 1
020		TF	PL717	-	220° (223.6°T)	4°E	20.6	-	-FL110 +9000	-	-	
030		TF	PL710	-	250° (253.9°T)	4°E	28.8	-	-	-250	-	
040		TF	PL709	-	264° (268.4°T)	4°E	7.6	-	+9000	-	-	
050		TF	PL708	-	264° (268.3°T)	4°E	5.0	-	-	-	-	
060		TF	PL707	-	264° (268.2°T)	4°E	5.0	-	-	-	-	
070		TF	PEPIM	-	264° (268.1°T)	4°E	5.0	-	-	-	IAF on ATC authorization only	
080		TF	PL705	-	264° (268.0°T)	4°E	5.0	-	-	-	-	
090		TF	PL704	-	354° (358.0°T)	4°E	7.0	-	-	-	-	
100		TF	GEKSI	-	084° (088.0°T)	4°E	5.0	-	+3000	-	IAF/IF	
010	LOS 1T	IF	LOS	-	-	4°E	-	-	-	-	-	RNAV 1
020		TF	PL716	-	301° (305.4°T)	4°E	21.1	-	-	-250	-	
030		TF	PL709	-	301° (305.1°T)	4°E	5.0	-	+9000	-	-	
040		TF	PL708	-	264° (268.3°T)	4°E	5.0	-	-	-	-	
050		TF	PL707	-	264° (268.2°T)	4°E	5.0	-	-	-	-	
060		TF	PEPIM	-	264° (268.1°T)	4°E	5.0	-	-	-	IAF on ATC authorization only	
070		TF	PL705	-	264° (268.0°T)	4°E	5.0	-	-	-	-	
080		TF	PL704	-	354° (358.0°T)	4°E	7.0	-	-	-	-	
090		TF	GEKSI	-	084° (088.0°T)	4°E	5.0	-	+3000	-	IAF/IF	
010	LABIN 2Y	IF	LABIN	-	-	4°E	-	-	-	-	-	RNAV 1
020		TF	PL704	-	105° (109.2°T)	4°E	18.5	-	-	-	-	
030		TF	GEKSI	-	084° (088.0°T)	4°E	5.0	-	+3000	-	IAF/IF	

IAF on ATC authorization only: For APPROACH TRANSITION from KONAS and PEPIM see LDPL AD 2.24.12 IAC RNP RWY 09

CHANGE: LDD21 area removed; New LDD22 and LDP1 areas added; Editorial.

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CROATIA
RNAV RWY 09

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
GEKSI	HM	084° (088.0°T)	1MIN / -	R	3000	-	250	4°E	-	RNAV 1

Waypoint name	WGS-84 latitude	WGS-84 longitude
LOS	443137.55N	0142822.25E
GEKSI	445311.7N	0133706.9E
GIRDA	452832N	0140802E
KONAS	450012.5N	0133646.7E
KULEN	450955N	0150801E
LABIN	445909N	0130529E
PEPIM	444611.0N	0133727.0E
ROTAR	451546N	0125944E
PL703	445959.6N	0132943.5E
PL704	445301.3N	0133005.4E
PL705	444600.4N	0133026.3E
PL707	444621.1N	0134427.7E
PL708	444630.8N	0135128.5E
PL709	444640.0N	0135829.4E
PL710	444653.3N	0140910.3E
PL711	450024.8N	0134349.0E
PL712	450036.8N	0135051.4E
PL713	450536.5N	0135034.9E
PL714	451502.4N	0135003.4E
PL715	450053.5N	0140109.6E
PL716	444347.8N	0140414.0E
PL717	445458.9N	0144802.5E

CHANGE: LDD21 area removed; New LDD22 and LDP1 areas added; Editorial.

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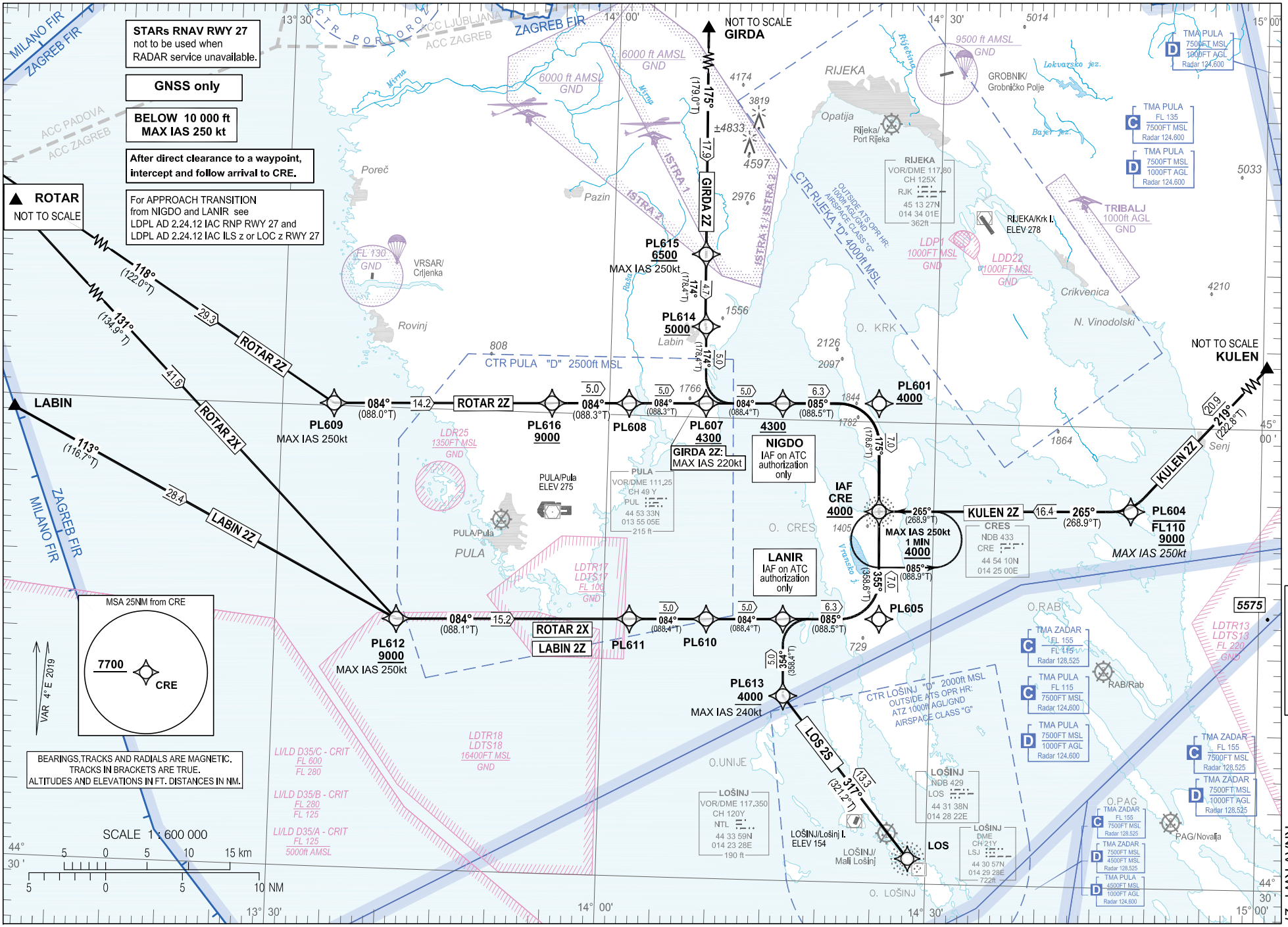
Change: LDD21 area removed; New LDD22 and LDP1 areas added; Editorial.



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RNAV RWY 27

LDPL RNAV STANDARD ARRIVAL RWY 27

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	ROTAR 2Z	IF	ROTAR	-	-	4°E	-	-	-	-	-	RNAV 1
020		TF	PL609	-	118° (122.0°T)	4°E	29.3	-	-	-250	-	
030		TF	PL616	-	084° (088.0°T)	4°E	14.2	-	+9000	-	-	
040		TF	PL608	-	084° (088.3°T)	4°E	5.0	-	-	-	-	
050		TF	PL607	-	084° (088.3°T)	4°E	5.0	-	+4300	-	-	
060		TF	NIGDO	-	084° (088.4°T)	4°E	5.0	-	+4300	-	IAF on ATC authorization only	
070		TF	PL601	-	085° (088.5°T)	4°E	6.3	-	+4000	-	-	
080		TF	CRE	-	175° (178.6°T)	4°E	7.0	-	+4000	-	IAF	
010	GIRDA 2Z	IF	GIRDA	-	-	4°E	-	-	-	-	-	RNAV 1
020		TF	PL615	-	175° (179.0°T)	4°E	17.9	-	+6500	-250	-	
030		TF	PL614	-	174° (178.4°T)	4°E	4.7	-	+5000	-	-	
040		TF	PL607	-	174° (178.4°T)	4°E	5.0	-	+4300	-220	-	
050		TF	NIGDO	-	084° (088.4°T)	4°E	5.0	-	+4300	-	IAF on ATC authorization only	
060		TF	PL601	-	085° (088.5°T)	4°E	6.3	-	+4000	-	-	
070		TF	CRE	-	175° (178.6°T)	4°E	7.0	-	+4000	-	IAF	
010	KULEN 2Z	IF	KULEN	-	-	4°E	-	-	-	-	-	RNAV 1
020		TF	PL604	-	219° (222.8°T)	4°E	20.9	-	-FL110 +9000	-250	-	
030		TF	CRE	-	265° (268.9°T)	4°E	16.4	-	+4000	-	IAF	
010	LOS 2S	IF	LOS	-	-	4°E	-	-	-	-	-	RNAV 1
020		TF	PL613	-	317° (321.2°T)	4°E	13.3	-	+4000	-240	-	
030		TF	LANIR	-	354° (358.4°T)	4°E	5.0	-	-	-	IAF on ATC authorization only	
040		TF	PL605	-	085° (088.5°T)	4°E	6.3	-	-	-	-	
050		TF	CRE	-	355° (358.6°T)	4°E	7.0	-	+4000	-	IAF	

CHANGE: LDD21 area removed; New LDD22 and LDP1 areas added; Editorial.

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LDPL RNAV STANDARD ARRIVAL RWY 27

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	LABIN 2Z	IF	LABIN	-	-	4°E	-	-	-	-	-	RNAV 1
020		TF	PL612	-	113° (116.7°T)	4°E	28.4	-	+9000	-250	-	
030		TF	PL611	-	084° (088.1°T)	4°E	15.2	-	-	-	-	
040		TF	PL610	-	084° (088.4°T)	4°E	5.0	-	-	-	-	
050		TF	LANIR	-	084° (088.4°T)	4°E	5.0	-	-	-	IAF on ATC authorization only	
060		TF	PL605	-	085° (088.5°T)	4°E	6.3	-	-	-	-	
070		TF	CRE	-	355° (358.6°T)	4°E	7.0	-	+4000	-	IAF	
010	ROTAR 2X	IF	ROTAR	-	-	4°E	-	-	-	-	-	RNAV 1
020		TF	PL612	-	131° (134.9°T)	4°E	41.6	-	+9000	-250	-	
030		TF	PL611	-	084° (088.1°T)	4°E	15.2	-	-	-	-	
040		TF	PL610	-	084° (088.4T)	4°E	5.0	-	-	-	-	
050		TF	LANIR	-	084° (088.4°T)	4°E	5.0	-	-	-	IAF on ATC authorization only	
060		TF	PL605	-	085° (088.5°T)	4°E	6.3	-	-	-	-	
070		TF	CRE	-	355° (358.6°T)	4°E	7.0	-	+4000	-	IAF	

IAF on ATC authorization only:
For APPROACH TRANSITION from NIGDO and LANIR see LDPL AD 2.24.12 IAC RNP RWY 27 and LDPL AD 2.24.12 IAC ILS z or LOC z RWY 27

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
CRE	HM	265° (268.9°T)	1MIN / -	L	4000	-	250	4°E	-	RNAV 1

CHANGE: LDD21 area removed; New LDD22 and LDP1 areas added; Editorial.

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RNAV RWY 27

Waypoint coordinates		
Waypoint name	WGS-84 latitude	WGS-84 longitude
CRE	445410.37N	0142459.57E
LOS	443137.55N	0142822.25E
GIRDA	452832N	0140802E
KULEN	450955N	0150801E
LABIN	445909N	0130529E
ROTAR	451546N	0125944E
LANIR	444700.8N	0141626.9E
NIGDO	450102.6N	0141554.4E
PL601	450112.1N	0142445.1E
PL604	445431.8N	0144803.2E
PL605	444710.1N	0142513.9E
PL607	450054.6N	0140851.7E
PL608	450046.1N	0140149.0E
PL609	450009.4N	0133444.6E
PL610	444652.8N	0140925.9E
PL611	444644.4N	0140225.0E
PL612	444616.2N	0134106.3E
PL613	444200.9N	0141638.4E
PL614	450554.4N	0140840.0E
PL615	451036.9N	0140828.9E
PL616	450037.1N	0135444.0E

CHANGE: LDD21 area removed; New LDD22 and LDP1 areas added; Editorial.

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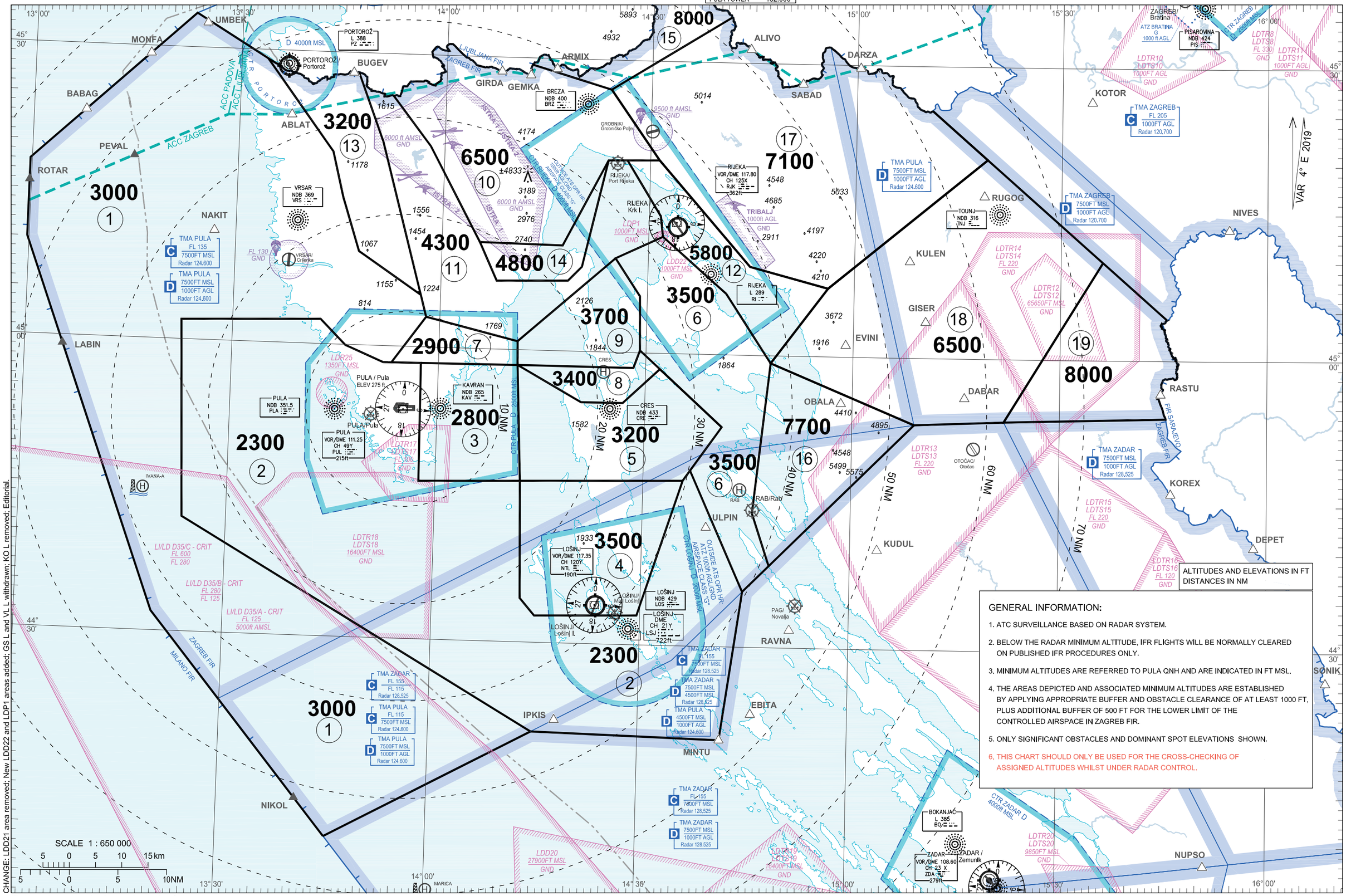
ATC SURVEILLANCE MINIMUM ALTITUDE CHART - ICAO

TRANSITION ALTITUDE
10 000

AD ELEV 275ft

PULA ATIS	129.150
PULA RADAR	127.675
	124.600
PULA TOWER	132.000

PULA/ Pula
CROATIA



ALTITUDES AND ELEVATIONS IN FT
DISTANCES IN NM

GENERAL INFORMATION:

1. ATC SURVEILLANCE BASED ON RADAR SYSTEM.
2. BELOW THE RADAR MINIMUM ALTITUDE, IFR FLIGHTS WILL BE NORMALLY CLEARED ON PUBLISHED IFR PROCEDURES ONLY.
3. MINIMUM ALTITUDES ARE REFERRED TO PULA QNH AND ARE INDICATED IN FT MSL.
4. THE AREAS DEPICTED AND ASSOCIATED MINIMUM ALTITUDES ARE ESTABLISHED BY APPLYING APPROPRIATE BUFFER AND OBSTACLE CLEARANCE OF AT LEAST 1000 FT, PLUS ADDITIONAL BUFFER OF 500 FT FOR THE LOWER LIMIT OF THE CONTROLLED AIRSPACE IN ZAGREB FIR.
5. ONLY SIGNIFICANT OBSTACLES AND DOMINANT SPOT ELEVATIONS SHOWN.
6. THIS CHART SHOULD ONLY BE USED FOR THE CROSS-CHECKING OF ASSIGNED ALTITUDES WHILST UNDER RADAR CONTROL.

CHANGE: LDD21 area removed; New LDD22 and LDP1 areas added; GS L and VL L withdrawn; KO L removed; Editorial.

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zadnja izmjena 01.04.2021

LIST OF COORDINATES FOR
MINIMUM VECTORING ALTITUDE SECTORS

SECTOR 1	WGS-84 latitude	WGS-84 longitude
	452906N	0133347E
	451946N	0134345E
	451503N	0134527E
	450937N	0134758E
	450520N	0135708E
	450306N	0135801E
	445818N	0135311E
	445818N	0135200E
	445956N	0134627E
	450232N	0134243E
	450201N	0132235E
	444147N	0132341E
	442050N	0141447E
	440926N	0134535E
	along the FIR BDRY Zagreb-Milano	
	along the FIR BDRY Zagreb-Ljubljana	
	452906N	0133347E

SECTOR 2	WGS-84 latitude	WGS-84 longitude
	442050N	0141447E
	444147N	0132341E
	450201N	0132235E
	450232N	0134243E
	445956N	0134627E
	445818N	0135200E
	445818N	0135311E
	445820N	0135728E
	444614N	0135738E
	444632N	0141216E
	443430N	0141242E
	443245N	0141451E
	443301N	0142933E
	444658N	0143545E
	444802N	0143646E
	443542N	0144440E
	442024N	0144144E
	442050N	0141447E

SECTOR 3	WGS-84 latitude	WGS-84 longitude
	445820N	0135728E
	445825N	0141127E
	444632N	0141216E
	444614N	0135738E
	445820N	0135728E

SECTOR 4	WGS-84 latitude	WGS-84 longitude
	444632N	0141216E
	444658N	0143545E
	443301N	0142933E
	443245N	0141451E
	443430N	0141242E
	444632N	0141216E

SECTOR 5	WGS-84 latitude	WGS-84 longitude
	445825N	0141127E
	445447N	0142047E
	445448N	0142648E
	445823N	0143204E
	445234N	0144112E
	444802N	0143646E
	444658N	0143545E
	444632N	0141216E
	445825N	0141127E

SECTOR 6	WGS-84 latitude	WGS-84 longitude
	450939N	0142515E
	451159N	0143204E
	450617N	0144126E
	445914N	0144805E
	444346N	0144550E
	443824N	0144824E
	443542N	0144440E
	444802N	0143646E
	445234N	0144112E
	445823N	0143204E
	450015N	0142907E
	450549N	0142856E
	450939N	0142515E

SECTOR 7	WGS-84 latitude	WGS-84 longitude
	450306N	0135801E
	450052N	0141122E
	445825N	0141127E
	445820N	0135728E
	445818N	0135311E
	450306N	0135801E

SECTOR 8	WGS-84 latitude	WGS-84 longitude
	445825N	0141127E
	445826N	0142814E
	450015N	0142907E
	445823N	0143204E
	445448N	0142648E
	445447N	0142047E
	445825N	0141127E

SECTOR 9	WGS-84 latitude	WGS-84 longitude
	450939N	0142515E
	450549N	0142856E
	450015N	0142907E
	445826N	0142814E
	445825N	0141127E
	450052N	0141122E
	450939N	0142515E

SECTOR 10	WGS-84 latitude	WGS-84 longitude
	452918N	0141228E
	452658N	0142404E
	451949N	0143119E
	451944N	0142638E
	451941N	0142352E
	451050N	0141731E
	451056N	0140529E
	452038N	0135755E
	452543N	0135214E
	along the FIR BDRY Zagreb-Ljubljana	
	452918N	0141228E

SECTOR 11	WGS-84 latitude	WGS-84 longitude
	452543N	0135214E
	452038N	0135755E
	451056N	0140529E
	450701N	0140805E
	450714N	0141826E
	450842N	0142024E
	451941N	0142352E
	451944N	0142638E
	451405N	0143141E
	451159N	0143204E
	450939N	0142515E
	450052N	0141122E
	450306N	0135801E
	450520N	0135708E
	452059N	0135058E
	452758N	0134707E
	along the FIR BDRY Zagreb-Ljubljana	
	452543N	0135214E

SECTOR 12	WGS-84 latitude	WGS-84 longitude
	451944N	0142638E
	451949N	0143119E
	450906N	0144449E
	450701N	0145612E
	445914N	0144805E
	450617N	0144126E
	451159N	0143204E
	451405N	0143141E
	451944N	0142638E

SECTOR 13	WGS-84 latitude	WGS-84 longitude
	452758N	0134707E
	452059N	0135058E
	450520N	0135708E
	450937N	0134758E
	451503N	0134527E
	451946N	0134345E
	452906N	0133347E
	along the FIR BDRY Zagreb-Ljubljana	
	452758N	0134707E

SECTOR 14	WGS-84 latitude	WGS-84 longitude
	451056N	0140529E
	451050N	0141731E
	451941N	0142352E
	450842N	0142024E
	450714N	0141826E
	450701N	0140805E
	451056N	0140529E

SECTOR 15	WGS-84 latitude	WGS-84 longitude
	453441N	0144129E
	452658N	0142404E
	452918N	0141228E
	along the FIR BDRY Zagreb-Ljubljana	
	453441N	0144129E

SECTOR 16	WGS-84 latitude	WGS-84 longitude
	445914N	0144805E
	445308N	0150900E
	443824N	0144824E
	444346N	0144550E
	445914N	0144805E

SECTOR 17	WGS-84 latitude	WGS-84 longitude
	452527N	0151100E
	452029N	0151908E
	450701N	0145612E
	450906N	0144449E
	451949N	0143119E
	452658N	0142404E
	453441N	0144129E
	along the FIR BDRY Zagreb -Ljubljana	
	452527N	0151100E

SECTOR 18	WGS-84 latitude	WGS-84 longitude
	452029N	0151908E
	451004N	0153605E
	445334N	0152156E
	445314N	0151136E
	445308N	0150900E
	445914N	0144805E
	450701N	0145612E
	451101N	0150300E
	452029N	0151908E

SECTOR 19	WGS-84 latitude	WGS-84 longitude
	451004N	0153605E
	450414N	0154529E
	along the FIR BDRY Zagreb -Sarajevo	
	445403N	0154522E
	445334N	0152156E
	451004N	0153605E

CHANGE: LDD21 area removed; New LDD22 and LDP1 areas added; GS L and VL L withdrawn; KO L removed; Editorial.

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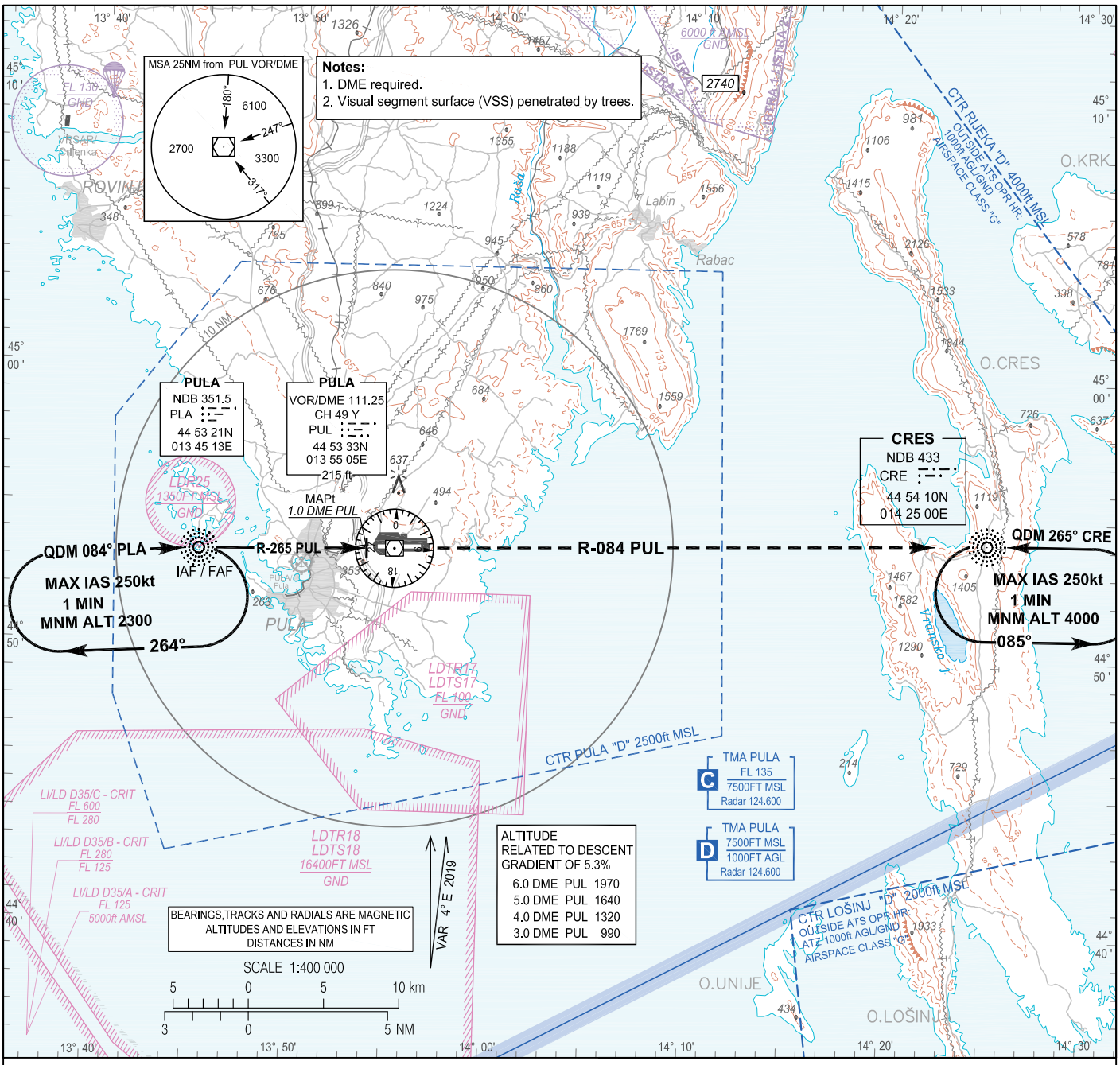
INSTRUMENT APPROACH
CHART-ICAO

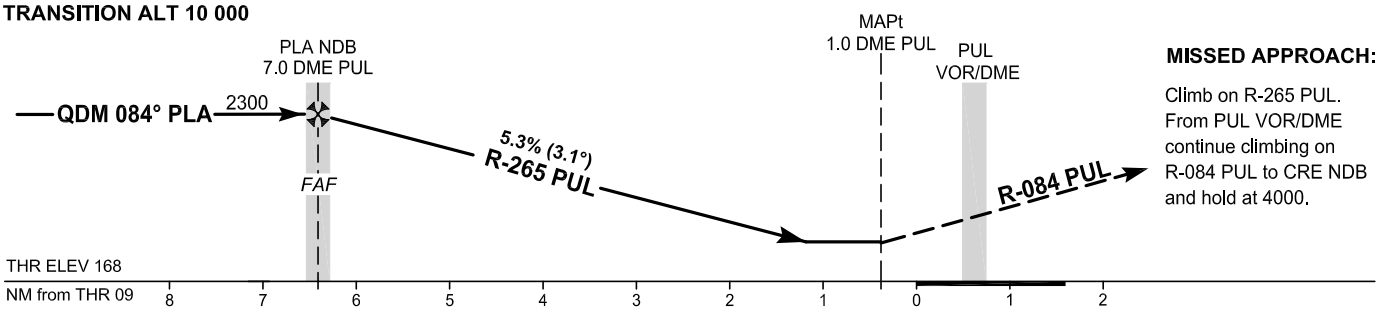
AD ELEV 275
HEIGHTS RELATED
TO THR 09 ELEV 168

PULA ATIS	129.150
PULA RADAR	127.675
	124.600
PULA TOWER	132.000

PULA / Pula
CROATIA
VOR RWY 09



TRANSITION ALT 10 000



MISSED APPROACH:

Climb on R-265 PUL. From PUL VOR/DME continue climbing on R-084 PUL to CRE NDB and hold at 4000.

OCA(H)	A	B	C	D
Straight-in Approach	670 (510)			
Circling	860 (590)	950 (680)	1110 (840)	1190 (920)

FAF to MAPt distance 6.0 NM
Timing not authorized for defining the MAPt

GS (kt)	80	100	120	140	160	180
min:sec	4:31	3:37	3:01	2:35	2:16	2:01
Rate of descent (ft/min)	433	541	650	758	866	974

CHANGE: Intermediate segment from LABIN 3A withdrawn; PLA NDB base turn withdrawn; descent gradient changed; SDF withdrawn; altitude related to descent gradient table updated; profile view updated; ADR table updated; circling CAT A OCA(H); missed approach text; „time to fly" table updated; VL L and GS L withdrawn; Obstacles updated; Editorial.

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PULA / Pula
CROATIA
VOR RWY 09

AERONAUTICAL DATABASE REQUIREMENTS			
Conventional procedure essential fixes/points			
VOR RWY 09			
Final approach descent angle: 3.06°			
Fix identification	Coordinates	True bearing or ARC distance providing track	True bearing or distance providing intersection
IAF (PLA NDB)	445321.15N 0134512.66E	-	-
FAF (PLA NDB)	445321.15N 0134512.66E	268.51° PUL VOR	7.02 DME PUL
MAPt	445331.0N 0135340.9E	268.51° PUL VOR	1.00 DME PUL

CHANGE: Intermediate segment from LABIN 3A withdrawn; PLA NDB base turn withdrawn; descent gradient changed; SDF withdrawn; altitude related to descent gradient table updated; profile view updated; ADR table updated; circling CAT A OCA(H); missed approach text; „time to fly" table updated; VL L and GS L withdrawn; Obstacles updated; Editorial.

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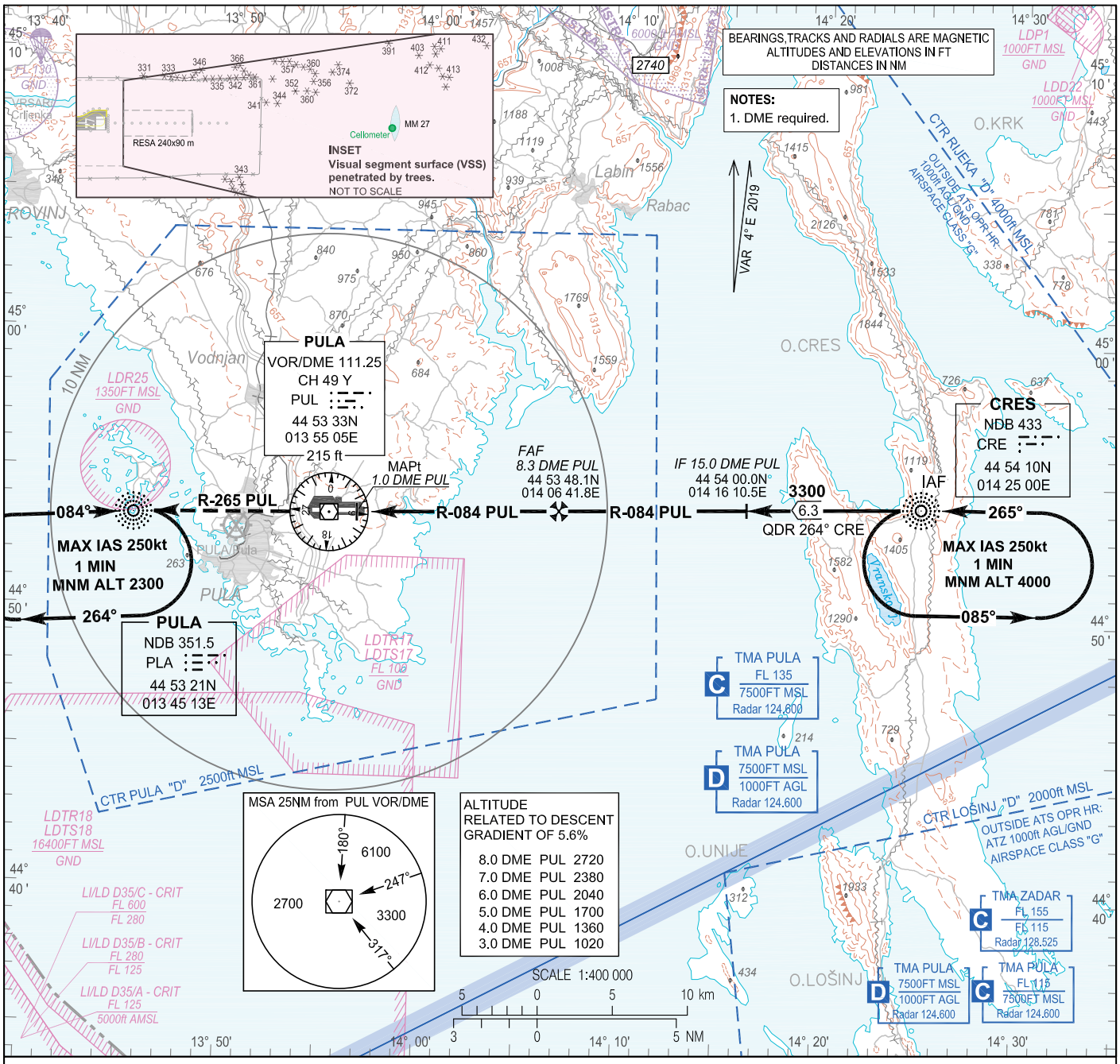
INSTRUMENT APPROACH
CHART-ICAO

AD ELEV 275
HEIGHTS RELATED
TO THR 27 ELEV 275

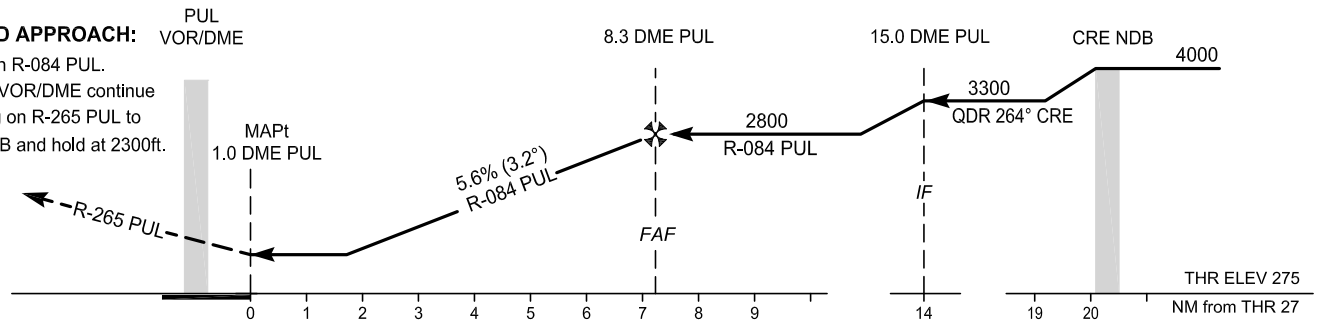
PULA ATIS	129.150
PULA RADAR	127.675
	124.600
PULA TOWER	132.000

PULA / Pula
CROATIA
VOR RWY 27



TRANSITION ALT 10 000

MISSED APPROACH:
Climb on R-084 PUL.
At PUL VOR/DME continue climbing on R-265 PUL to PLA NDB and hold at 2300ft.



OCA(H)	A	B	C	D
Straight-in Approach	830 (560)			
Circling	860 (590)	950 (680)	1110 (840)	1190 (920)

FAF to MAPt distance 7.3 NM Timing not authorized for defining the MAPt						
GS (kt)	80	100	120	140	160	180
min : sec	5:27	4:21	3:38	3:07	2:43	2:25
Rate of descent (ft / min)	453	567	680	793	906	1020

CHANGE: LDD21 area removed; New LDD22 and LDP1 areas added.

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PULA / Pula
CROATIA
VOR RWY 27

AERONAUTICAL DATABASE REQUIREMENTS			
Conventional procedure essential fixes/points			
VOR RWY 27			
Final approach descent angle: 3.2°			
Fix identification	Coordinates	True bearing or ARC distance providing track	True bearing or distance providing intersection
IAF (CRE NDB)	445410.37N 0142459.57E	-	-
IF	445400.0N 0141610.5E	088.12° PUL VOR	15.00 DME PUL
FAF	445348.1N 0140641.8E	088.12° PUL VOR	8.26 DME PUL
MAPt	445334.5N 0135629.6E	088.12° PUL VOR	1.00 DME PUL

CHANGE: LDD21 area removed; New LDD22 and LDP1 areas added.

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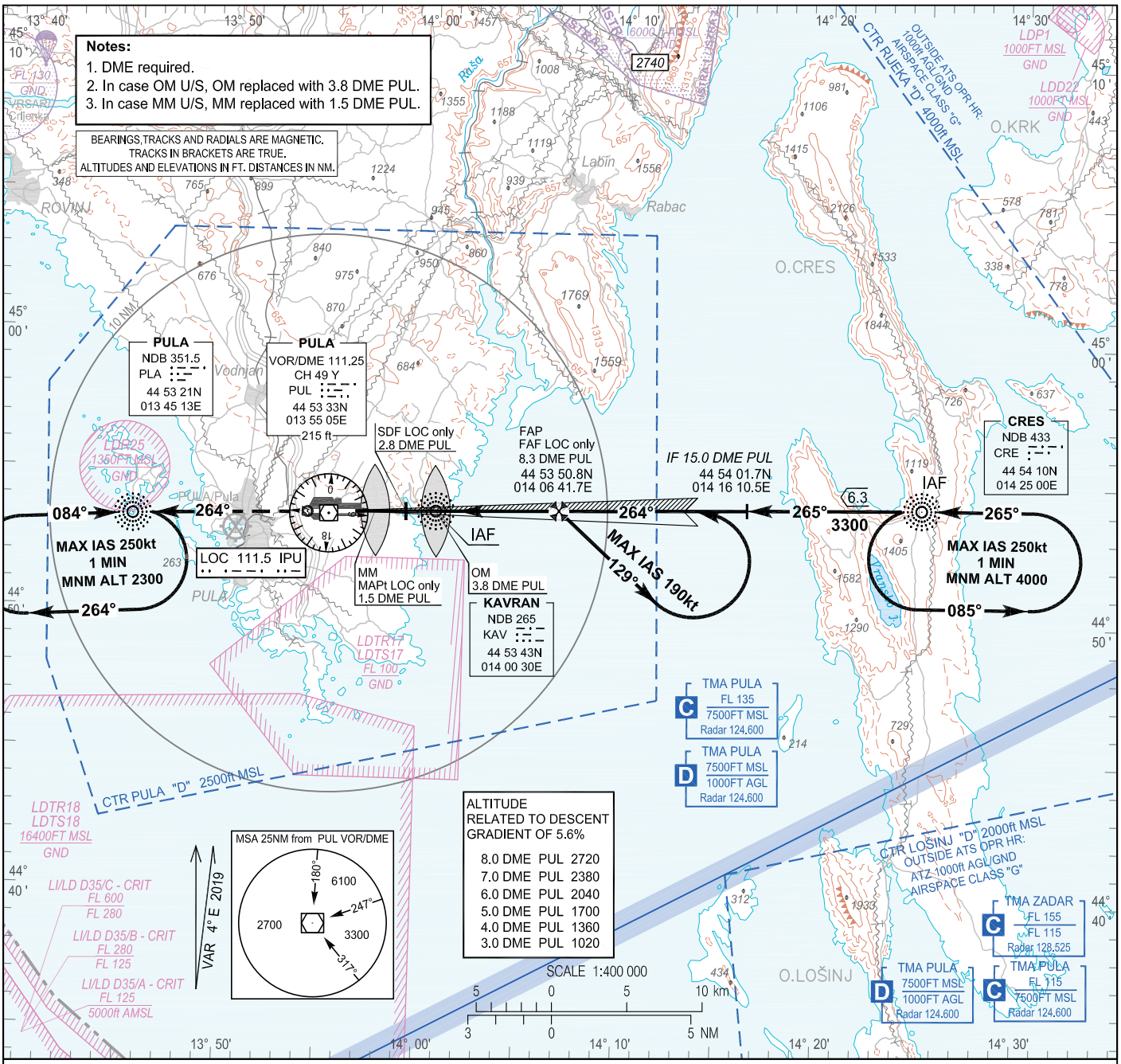
INSTRUMENT APPROACH
CHART-ICAO

AD ELEV 275
HEIGHTS RELATED
TO THR 27 ELEV 275

PULA ATIS	129.150
PULA RADAR	127.675
	124.600
PULA TOWER	132.000

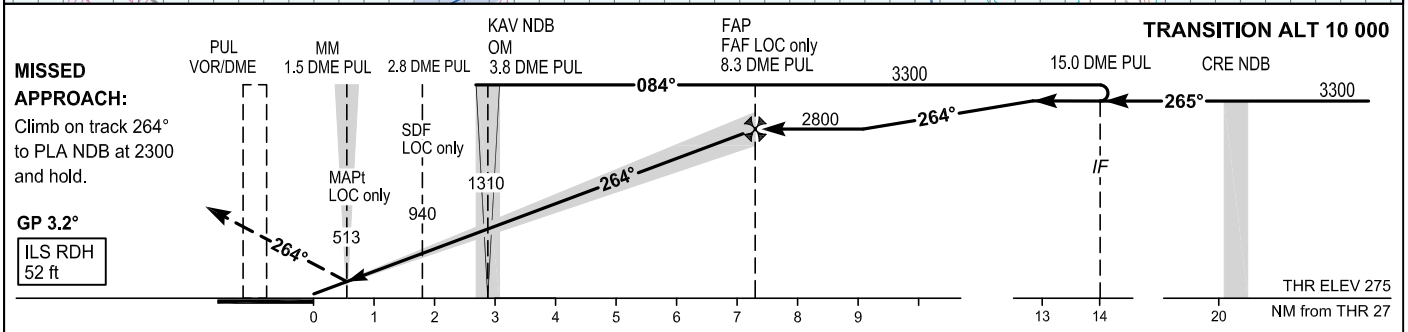
PULA / Pula
CROATIA
ILS y or LOC y RWY 27



MISSED APPROACH:
Climb on track 264° to PLA NDB at 2300 and hold.

GP 3.2°
ILS RDH
52 ft

TRANSITION ALT 10 000



OCA(H)		A	B	C	D
Straight-in Approach	ILS CAT I press. altim.	492 (217)	498 (223)	505 (230)	515 (240)
	LOC only	690 (420)			
Circling		860 (590)	950 (680)	1110 (840)	1190 (920)

GS(kt)	80	100	120	140	160	180
Rate of descent (ft / min)	453	567	680	793	906	1020

CHANGE: LDD21 area removed; New LDD22 and LDP1 areas added; GS L and VL L withdrawn; Editorial.

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PULA / Pula
CROATIA
ILS y or LOC y RWY 27

AERONAUTICAL DATABASE REQUIREMENTS			
Conventional procedure essential fixes/points			
ILS y or LOC y RWY 27			
LOC only - final approach descent angle: 3.2°			
Fix identification	Coordinates	True bearing or ARC distance providing track	True bearing or distance providing intersection
IAF (KAV NDB)	445343.27N 0140029.66E	-	-
IAF (CRE NDB)	445410.37N 0142459.57E	-	-
IF	445401.7N 0141610.5E	268.28° (IPU LOC)	15.0 DME PUL
FAF LOC only	445350.8N 0140641.7E	268.28° (IPU LOC)	8.26 DME PUL
SDF LOC only	445341.4N 0135858.6E	268.28° (IPU LOC)	2.77 DME PUL
MAPt LOC only (MM 27)	445339.18N 0135712.92E	268.28° (IPU LOC)	1.52 DME PUL

CHANGE: LDD21 area removed; New LDD22 and LDP1 areas added; GS L and VL L withdrawn; Editorial.

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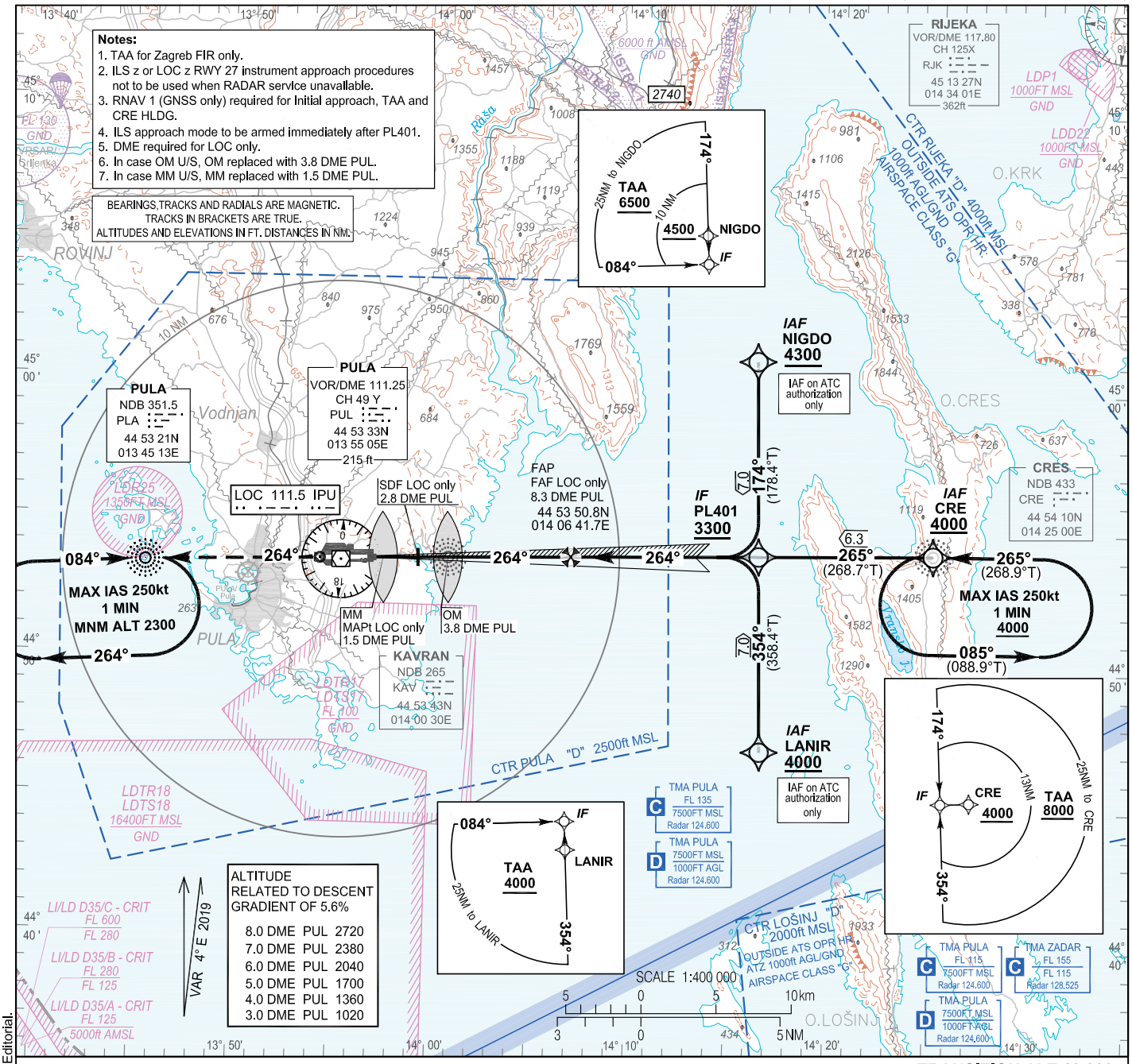
INSTRUMENT APPROACH
CHART-ICAO

AD ELEV 275
HEIGHTS RELATED
TO THR 27 ELEV 275

PULA ATIS	129.150
PULA RADAR	127.675
	124.600
PULA TOWER	132.000

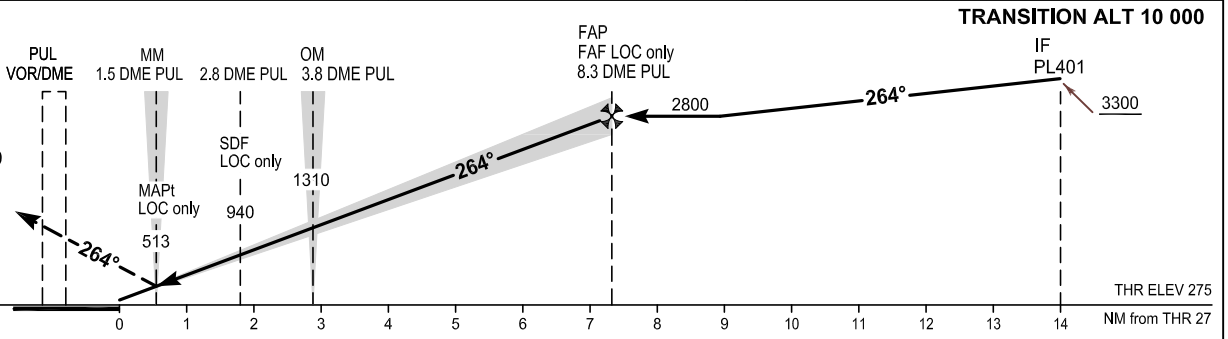
PULA / Pula
CROATIA
ILS z or LOC z RWY 27
(RNAV 1 to ILS or LOC transition)



TRANSITION ALT 10 000

MISSED APPROACH:
Climb on track 264° to PLA NDB at 2300 and hold.

GP 3.2°
ILS RDH
52 ft



OCA(H)		A	B	C	D
Straight-in Approach	ILS CAT I press. altim.	492 (217)	498 (223)	505 (230)	515 (240)
	LOC only	690 (420)			
Circling		860 (590)	950 (680)	1110 (840)	1190 (920)

GS(kt)	80	100	120	140	160	180
Rate of descent (ft / min)	453	567	680	793	906	1020

CHANGE: LDD21 area removed; New LDD22 and LDP1 areas added; Editorial.

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PULA / Pula
CROATIA
ILS z or LOC z RWY 27
(RNAV 1 to ILS or LOC transition)

LDPL ILS z or LOC z RWY 27 (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	NIGDO	-	-	4°E	-	-	+4300	-	-	IAF on ATC autorization only	RNAV 1
020	IF	TF	PL401	-	174° (178.4°T)	4°E	7.0	-	+3300	-	-	-	
010	IAF	IF	CRE	-	-	4°E	-	-	+4000	-	-	-	RNAV 1
020	IF	TF	PL401	-	265° (268.7°T)	4°E	6.3	-	+3300	-	-	-	
010	IAF	IF	LANIR	-	-	4°E	-	-	+4000	-	-	IAF on ATC autorization only	RNAV 1
020	IF	TF	PL401	-	354° (358.4°T)	4°E	7.0	-	+3300	-	-	-	

AERONAUTICAL DATABASE REQUIREMENTS

Conventional procedure essential fixes/points

ILS z or LOC z RWY 27

LOC only - final approach descent angle: 3.2°

Fix identification	Coordinates	True bearing or ARC distance providing track	True bearing or distance providing intersection
IF (PL401)	445401.7N 0141610.7E	-	-
FAF LOC only	445350.8N 0140641.7E	268.28° (IPU LOC)	8.26 DME PUL
SDF LOC only	445341.4N 0135858.6E	268.28° (IPU LOC)	2.77 DME PUL
MAPt LOC only (MM 27)	445339.18N 0135712.92E	268.28° (IPU LOC)	1.52 DME PUL

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
CRE	HM	265° (268.9°T)	1 MIN / -	L	4000	-	250	4°E	-	RNAV 1

Waypoint coordinates

Waypoint name	WGS-84 latitude	WGS-84 longitude
NIGDO	450102.6N	0141554.4E
CRE	445410.37N	0142459.57E
LANIR	444700.8N	0141626.9E
PL401	445401.7N	0141610.7E

CHANGE: LDD21 area removed; New LDD22 and LDP1 areas added; Editorial.

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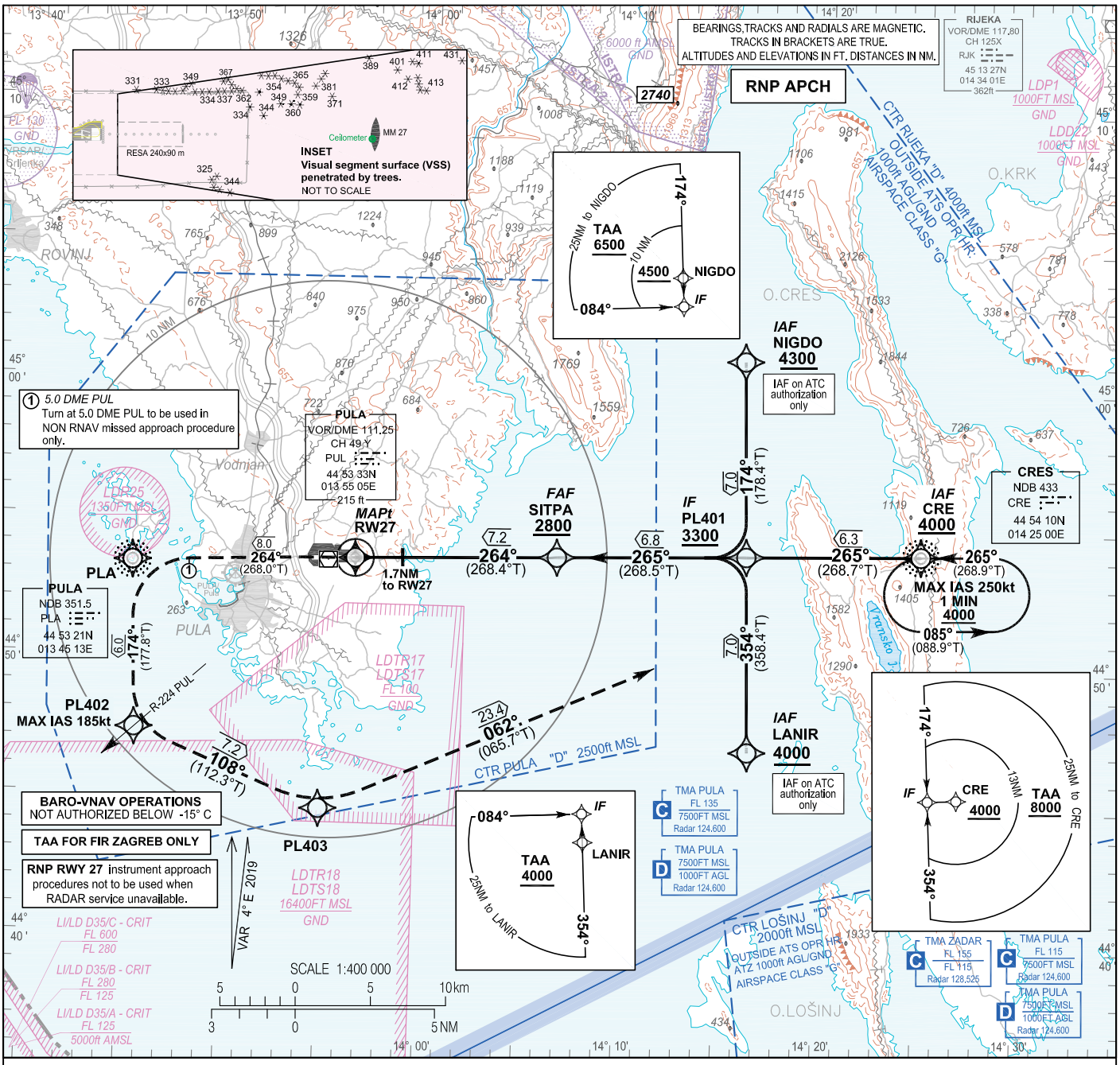
INSTRUMENT APPROACH
CHART-ICAO

AD ELEV 275
HEIGHTS RELATED
TO THR 27 ELEV 275

SBAS		
CH: 84565	PULA ATIS	129.150
E27A	PULA RADAR	127.675
		124.600
	PULA TOWER	132.000

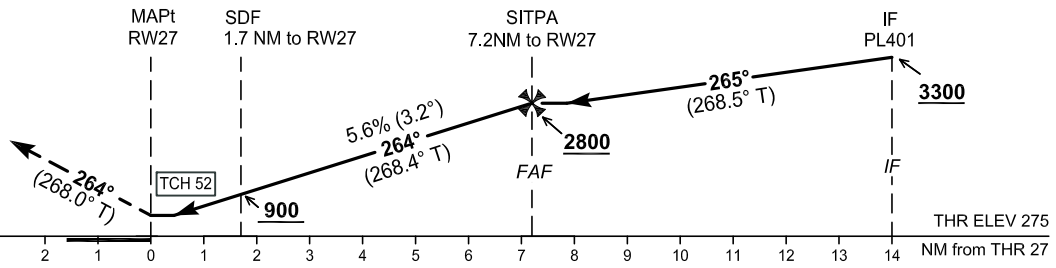
PULA / Pula
CROATIA
RNP RWY 27



MISSED APPROACH
RNAV
RW27 - PLA [L] - PL402 [L; -K185]
- PL403 [L] - CRE [A4000]

NON RNAV
Climb straight ahead to PLA NDB. At 5.0 DME PUL turn LEFT to intercept and follow QDR 174° PLA. On crossing R-224 PUL turn LEFT on track 108°. Intercept and follow bearing QDM 062° CRE to CRE NDB at 4000 and hold.
MAX IAS 185kt until crossing PL402.

TRANSITION ALT 10 000



OCA(H)		A	B	C	D
Straight-in approach	LNAV	710 (435)			
	LNAV/VNAV	610 (335)		620 (345)	630 (355)
	LPV	560 (285)	570 (295)	580 (305)	590 (315)
Circling		890 (620)	950 (680)	1110 (840)	1190 (920)

DIST THR / RW27	NM	7	6	5	4	3	2	1
Altitude	ft	2700	2360	2020	1680	1340	1000	660

Timing not authorized for defining the MAPt							
GS	kt	80	100	120	140	160	180
SITPA - RW27 (7.2NM)	min:sec	5:24	4:19	3:36	3:05	2:42	2:24
Rate of descent (5.6%)	ft/min	454	567	681	794	907	1021

CHANGE: LDD21 area removed; New LDD22 and LDP1 areas added; Editorial.

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PULA / Pula
CROATIA
RNP RWY 27

Coding elements for FAS Data Block

Input data

Operation Type	0
SBAS Provider	1 (EGNOS)
Airport Identifier	LDPL
Runway	27
Runway Letter	0 (None)
Approach Performance Designator	0
Route Indicator	
Reference Path Data Selector	0
Reference Path Identifier	E27A
LTP/FTP Latitude	445338.1600N
LTP/FTP Longitude	0135626.8550E
LTP/FTP Ellipsoidal Height (metres)	126.9
FPAP Latitude	445335.2700N
Delta FPAP Latitude (seconds)	-2.8900
FPAP Longitude	0135412.6710E
Delta FPAP Longitude (seconds)	-134.1840
Threshold Crossing Height	52.0
TCH Units Selector	0 (feet)
Glidepath Angle (degrees)	3.20
Course Width (metres)	105.00
Length Offset (metres)	0
HAL (metres)	40.0
VAL (metres)	50.0

Output data

Data Block	10 0C 10 04 0C 1B 00 00 01 37 32 05 E0 31 44 13 CE 94 FB 05 F5 18 6C E9 FF B0 E7 FB 08 02 40 01 64 00 C8 FA 8B 02 04 89
Calculated CRC Value	8B020489

Required Additional Data

ICAO Code	LD
LTP/FTP Orthometric Height (metres)	83.7

CHANGE: LDD21 area removed; New LDD22 and LDP1 areas added; Editorial.

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LDPL RNP RWY27

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	NIGDO	-	-	4°E	-	-	+4300	-	-	IAF on ATC autoriization only	RNP APCH
020	IF	TF	PL401	-	174° (178.4°T)	4°E	7.0	-	+3300	-	-	-	
010	IAF	IF	CRE	-	-	4°E	-	-	+4000	-	-	-	RNP APCH
020	IF	TF	PL401		265° (268.7°T)	4°E	6.3	-	+3300	-	-	-	
010	IAF	IF	LANIR	-	-	4°E	-	-	+4000	-	-	IAF on ATC autoriization only	RNP APCH
020	IF	TF	PL401	-	354° (358.4°T)	4°E	7.0	-	+3300	-	-	-	

Proposed tabular description for navigation database coding - FINAL 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	IF	IF	PL401	-	-	4°E	-	-	+3300	-	-	-	RNP APCH
020	FAF	TF	SITPA	-	265° (268.5°T)	4°E	6.8	-	+2800	-	-	-	
030	MAPt	TF	RW27	Y	264° (268.4°T)	4°E	7.2	-	-	-	3.2 / 52.0	-	
040	-	TF	PLA	-	264° (268.0°T)	4°E	8.0	-	-	-	-	-	
050	-	TF	PL402	-	174° (177.8°T)	4°E	6.0	L	-	-185	-	-	
060	-	TF	PL403	-	108° (112.3°T)	4°E	7.2	-	-	-	-	-	
070	MAHF	TF	CRE	-	062° (065.7°T)	4°E	23.4	-	4000	-	-	-	
080	MAHF	HM	CRE	-	265° (268.9°T)	4°E	1MIN	L	4000	-250	-	Holding above 4000ft on ATC clearance only	RNAV 1

RNAV HOLDING tabular description

Waypoint name	Path Terminator	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
CRE	HM	265° (268.9°T)	1MIN / -	L	4000	-	250	4°E	-	RNAV 1

Waypoint coordinates		
Waypoint name	WGS-84 latitude	WGS-84 longitude
CRE	445410.37N	0142459.57E
PLA	445321.15N	0134512.66E
LANIR	444700.8N	0141626.9E
NIGDO	450102.6N	0141554.4E
SITPA	445350.7N	0140636.9E
RW27	445338.16N	0135626.85E
PL401	445401.7N	0141610.7E
PL402	444721.5N	0134531.7E
PL403	444436.5N	0135455.4E

CHANGE: LDD21 area removed; New LDD22 and LDP1 areas added; Editorial.

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VISUAL OPERATION CHART

ARP	AD ELEV 275
44° 53' 36.72"N 013° 55' 19.89"E	

PULA ATIS	129.150	PULA TOWER	132.000
PULA RADAR	127.675 124.600		

PULA / Pula
CROATIA

Reporting Point	Definition
E3	Town Rabac
E6	Village Marčana
KONAS	R293 15DME PUL
N5	Near village Baderna
P5	R179 22DME PUL
PEPIM	R236 15DME PUL
S7	South from islet Porer
S8	Cape of Marlera
U1	The northernmost cape of island Cres
W4	Village Barbariga
W5	Town Vodnjan

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

SCALE 1:300 000

km 0 5 10
NM 0 5

(m)	ft	ELEVATION TINTS
(1200)	3937	
(800)	2625	
(400)	1313	
(0)	0	

VAR 4° E 2019

ALTITUDES AND ELEVATIONS IN FT

ATTENTION:
For latest information consult relevant publications, and NOTAMs!
Prominent transmission lines data not complete!
No guarantee for the completeness and accuracy of obstacles!

LEGEND

Holding fix with WGS-84 coordinates — S8 44 48 14N 013 59 51E
Significant VFR point — S7
Recommended VFR route — ADRIA1
Mandatory (arrival - departure) VFR route

CHANGE: GS L and VL L withdrawn; Obstacles updated; New VFR route ADRIA5 added; New reporting points KONAS, PEPIM and P5 added; Editorial.

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LDRI AD 2.6 RESCUE AND FIRE FIGHTING SERVICES

1	AD category for fire fighting	CAT 10 See remarks.
2	Rescue equipment	2 heavy fire fighting vehicles Volvo FMX, 9000 L water, 1500 L foam, 250 KG powder. 1 heavy fire fighting vehicle Mercedes Actros, 7000 L water, 1500 L foam, 750 KG powder. 1 heavy fire fighting vehicle Mercedes 2636, 10 000 L water, 200 L foam, 250 KG powder. 1 command vehicle Nissan Pick Up with equipment for technical rescue.
3	Capability for removal of disabled aircraft	On request; in cooperation with external companies.
4	Remarks	From 01 JAN to 29 MAR and from 25 OCT to 31 DEC - CAT 5. From 30 MAR to 24 OCT - CAT 6. Up to CAT 10 available on request by prior notice (3 hours). During AD HR SER via: SITA: RJKAPXH; Email: operations@rijeka-airport.hr Outside AD HR SER via: Mobile phone: +385 99 267 5581, +385 99 525 8910, +385 99 545 9069, +385 99 265 5655.

LDRI AD 2.7 RUNWAY SURFACE CONDITION ASSESSMENT AND REPORTING, AND SNOW PLAN

1	Types of clearing equipment	NIL
2	Clearance priorities	NIL
3	Use of material for movement area surface treatment	NIL
4	Specially prepared winter runways	NIL
5	Remarks	It is proceeded in accordance with GRF

LDRI AD 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS/POSITIONS DATA

1	Apron surface and strength	**SURFACE**		**STRENGTH**	
		CONC		PCN 45/R/A/X/T	
2	Taxiway width, surface and strength	**TWY**	**WIDTH (M)**	**SURFACE**	**STRENGTH**
		TWY A	20	CONC	PCN 45/R/A/X/T
		TWY B	20	CONC	PCN 45/R/A/X/T
3	ACL location and elevation	Location: At Apron Elevation: 278 FT			
4	VOR checkpoints	Nil			
5	INS checkpoints	See LDRI AD 2.24.2 APDC -1			
6	Remarks	Nil			

LDRI AD 2.9 SURFACE MOVEMENT GUIDANCE AND CONTROL SYSTEM AND MARKINGS

1	Use of aircraft stand ID signs, TWY guide lines and visual docking/parking guidance system of aircraft stands	Guide lines at apron. Nose-in guidance at aircraft stands. Follow-me vehicle, Marshaller - obligatory guidance to/from parking stand from/to TWY A and B. Edge lights at Apron.Edge lights at Apron.
2	RWY and TWY markings and LGT	RWY-14/32: Designator, THR, Centre line, edges, TDZ, Runway turn pad marking TWY A Centre line, holding positions, edge lights, edge lights TWY B Centre line, holding positions, edge lights, edge lights
3	Stop bars	Nil
4	Remarks	Nil

LDRI AD 2.10 AERODROME OBSTACLES

RWY32 obstacle in Area 2: Frangible anemometer mast COORD 451236.83N 0143443.99E, ELEV 293FT (89M) AMSL. ICAO marked and lighted.
Other, LDRI AD 2.24.4 AOC RWY 14/32 -1

RWY14 obstacle in Area 3: Frangible anemometer mast COORD 451321.78N 0143345.06E, ELEV 308FT (94M) AMSL. ICAO marked and lighted.

LDRI AD 2.11 METEOROLOGICAL INFORMATION PROVIDED

1	Associated MET Office	RIJEKA
2	Hours of service MET Office outside hours	H24
3	Office responsible for TAF preparation Periods of validity	PULA, ZAGREB TAF (24HR)
4	Trend Forecast Interval of issuance	Nil
5	Briefing/consultation provided	Selfbriefing (URL: https://ib.crocontrol.hr) or by phone: +385 52 372521
6	Flight documentation Language(s) used	• Selfbriefing (URL: https://ib.crocontrol.hr) or request by phone.: +385 51 654841 • Croatian, English
7	Charts and other information available for briefing or consultation	• ICE, TURB and CB forecasts • Lightning data • Satelite images • Radar images
8	Supplementary equipment available for providing information	Telefax URL: https://met.crocontrol.hr
9	ATS units provided with information	Rijeka TWR, Pula APP
10	Additional information (limitation of service, etc.)	Nil

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LDSB AD 2.11 METEOROLOGICAL INFORMATION PROVIDED

1	Associated MET Office	BRAČ
2	Hours of service MET Office outside hours	During ATS operating hours SPLIT
3	Office responsible for TAF preparation Periods of validity	SPLIT, DUBROVNIK, ZADAR, ZAGREB TAF (24HR) - covering ATS operating hours
4	Trend Forecast Interval of issuance	Nil
5	Briefing/consultation provided	Selfbriefing (URL: https://ib.crocontrol.hr) or by phone: +385 1 6259224
6	Flight documentation Language(s) used	• Selfbriefing (URL: https://ib.crocontrol.hr) or request by phone: +385 21 205452 • Croatian, English
7	Charts and other information available for briefing or consultation	• ICE, TURB and CB forecasts • Lightning data • Satelite images • Radar images
8	Supplementary equipment available for providing information	Telefax URL:https://met.crocontrol.hr
9	ATS units provided with information	Brac TWR, Split APP
10	Additional information (limitation of service, etc.)	Nil

LDSB AD 2.12 RUNWAY PHYSICAL CHARACTERISTICS

Designations RWY NR	TRUE BRG	Dimensions of RWY (M)	Strength (PCN) and surface of RWY and SWY	THR COORD RWY End COORD THR Geoid Undulation	THR elevation and highest elevation of TDZ of precision APP RWY
1	2	3	4	5	6
03	035.09°	1760 x 30	PCN 37/F/B/X/T ASPH	431644.72N 0164024.04E* 431727.67N 0164105.34E 139.4 FT	THR 1779 FT displaced 140 M TDZ ELEV 1759 FT
21	215.09°			431726.09N 0164103.82E* 431641.02N 0164020.48E 139.4 FT	THR 1701 FT displaced 60 M TDZ ELEV 1730 FT

Designations RWY NR	Slope of RWY-SWY	SWY dimensions (M)	CWY dimensions (M)	Strip dimensions (M)	RESA dimensions (M) and surface
1	7	8	9	10	11
03	Slope of RWY: -0.4% (0 - 440 M) -1.8% (440 - 1760 M)	Nil	Nil	1830 x 150	Nil
21	Slope of RWY: 1.8% (0 - 1320 M) 0.4% (1320 - 1760 M)	Nil	Nil		Length: 90 M Width: 60 M Surface: macadam

Designations RWY NR	Location and description of arresting system	OFZ	Remarks
1	12	13	14
03	Nil	Nil	* displaced THR coordinates
21	Nil	Nil	* displaced THR coordinates

LDSB AD 2.13 DECLARED DISTANCES

RWY Designator	TORA (M)	TODA (M)	ASDA (M)	LDA (M)	Remarks
1	2	3	4	5	6
03	1760	1760	1760	1620	Nil
	550	550	Nil	Nil	Intersection TWY A
21	1760	1760	1760	1700	Nil
	1210	1210	Nil	Nil	Intersection TWY A

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LDSP AD 2.5 PASSENGER FACILITIES

1	Hotels	Hotels in Split, Trogir and Kastela
2	Restaurants	At AD, in the city
3	Transportation	Bus, taxi, rent a car at AD
4	Medical facilities	First aid at AD, hospital in the city
5	Bank and Post Office	At AD, open daily 0600-1300 and 1400-2100 LMT
6	Tourist Office	Agent's at AD and in the city
7	Remarks	NIL

LDSP AD 2.6 RESCUE AND FIRE FIGHTING SERVICES

1	AD category for fire fighting	CAT 9 See Remarks
2	Rescue equipment	1 Heavy fire fighting vehicle Rosenbauer Panther 6x6 12 500 L / 1 500 L 1 Heavy fire fighting vehicle MAN 6x6 8 500 L / 1 000 L 1 Heavy fire fighting vehicle Mercedes 9 000 L / 1 000 L 1 Heavy fire fighting vehicle Mercedes 8 500 L / 1 000 L 1 Commanding vehicle Toyota Land Cruiser 1 Commanding vehicle Jeep Cherokee 2.8 CRD 1 Zigler trailer with medical equipment 2.5 T
3	Capability for removal of disabled aircraft	1 towbar tractor - SCHOPF up to MTOW 180 000 KG 1 towbarless tractor - LEKTRO up to MTOW 55 000 KG - towbars: DC10, DC9, MD11, L1011, TU134, B747, B767, B757C, B727, B737/3, A310, A300, A320, A319
4	Remarks	CAT 7 during AD HR SER (see AD 2.3) CAT 8 and CAT 9 AVBL upon AD Operator approval only. PPR sent via SITA SPUAPXH or e-mail: ground.ops@split-airport.hr minimum 24 hours prior to arrival.

LDSP AD 2.7 RUNWAY SURFACE CONDITION ASSESSMENT AND REPORTING, AND SNOW PLAN

1	Types of clearing equipment	NIL
2	Clearance priorities	NIL
3	Use of material for movement area surface treatment	NIL
4	Specially prepared winter runways	NIL
5	Remarks	Runway surface inspection and report will be according to GRF regulation.

LDSP AD 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS/POSITIONS DATA

1	Apron surface and strength	**APRON**		**SURFACE**	**STRENGTH**
		APRON SECTION S1		CONC+ASPH	PCN 47/R/A/W/T
		APRON SECTION S2		CONC	PCN 66/R/A/W/T
		APRON SECTION S3		ASPH	PCN 73/F/B/W/T
2	Taxiway width, surface and strength	**TAXIWAY**	**WIDTH (M)**	**SURFACE**	**STRENGTH**
		A	20	CONC+ASPH	PCN 58/R/A/W/T
		B	18	CONC+ASPH	PCN 56/R/A/W/T
3	ACL location and elevation	At Apron 19 M / 62 FT			
4	VOR checkpoints	NIL			
5	INS checkpoints	NIL			
6	Remarks	TWY A shoulders suface: GRASS + ASPH, width: 9 M TWY B shoulders suface: GRASS, width: 3.5 M			

LDSP AD 2.9 SURFACE MOVEMENT GUIDANCE AND CONTROL SYSTEM AND MARKINGS

1	Use of aircraft stand ID signs, TWY guide lines and visual docking/parking guidance system of aircraft stands	Guide lines at Apron Vehicle “Follow me”, Marshaller
2	RWY and TWY markings and LGT	RWY 05/23: Designator, THR, TDZ, Centre line, Edge line, Edge Lights, RWY turn pad markings*, information signs TWY A: center line, extended center line, holding position, RWY ahead marking, RWY guard lights, mandatory instruction signs, information signs. TWY B: center line, extended center line, holding position, RWY ahead marking, RWY guard lights, mandatory instruction signs, information signs.
3	Stop bars	NIL
4	Remarks	*RWY 05 turn pad and RWY 23 turn pad restrictions: for aircraft with wheel base more than 17.30 M, the nose wheel steering angle exceeds 45 DEG. A slow taxi speed is recommended.

LDSP AD 2.10 AERODROME OBSTACLES

Obstacles in Area 2: See LDSP AD 2.24.4 AOC RWY 05 -1 and LDSP AD 2.24.4 AOC RWY 23 -1

Obstacles in Area 3: NIL

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LDZA AD 2.5 PASSENGER FACILITIES

1	Hotels	Hotels in Zagreb
2	Restaurants	At AD, in the city
3	Transportation	Bus, taxi, rent a car at AD
4	Medical facilities	First aid at AD, hospital in the city
5	Bank and Post Office	Nil
6	Tourist Office	Information counter Tourist board of the city of Zagreb.
7	Remarks	Nil

LDZA AD 2.6 RESCUE AND FIRE FIGHTING SERVICES

1	AD category for fire fighting	CAT 9 See Remarks
2	Rescue equipment	1 Heavy fire fighting vehicle: 14 000 L water, 1 300 L foam, 8 200 L discharge rate 1 Heavy fire fighting vehicle: 12 500 L water, 1 500 L foam, 9 000 L discharge rate 1 Heavy fire fighting vehicle: 3 500 L water, 500 L foam, 2 400 L discharge rate 1 Heavy fire fighting vehicle: 9 000 L water, 1 000 L foam, 6 400 L discharge rate
3	Capability for removal of disabled aircraft	Special equipment for this purpose is not available. Contact: Airport Duty Manager, mobile phone: +385 98 238 505, e-mail: koordinatori@zag.aero
4	Remarks	AD categories for fire fighting are: CAT 6 2200-0500 (2100-0400) CAT 7 0500-2200 (0400-2100) CAT 8 and 9 aligned with current/approved flight schedule as needed or on request in written form not later than 24 HR before the ACFT operation, e-mail: koordinatori@zag.aero. See LDZA AD 2.20.4

LDZA AD 2.7 RUNWAY SURFACE CONDITION ASSESSMENT AND REPORTING, AND SNOW PLAN

1	Types of clearing equipment	Snow removal equipment: snow ploughs, snow blowers, towed sweepers, spreaders and snow loaders. Chemical treatment with liquid spreaders
2	Clearance priorities	1. Runway 2. Taxiways 3. Apron parking stands
3	Use of material for movement area surface treatment	Nordway KF
4	Specially prepared winter runways	NIL

5	Remarks	De-snowing and de-icing available from 01 NOV to 15 APR H24. Construction maintenance, de-snowing and de-icing department manager phone: +385 1 4562 109 Assessment and reporting on the condition of the runway surface is carried out in accordance with GRF.

LDZA AD 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS/POSITIONS DATA

1	Apron surface and strength	**APRON**	**SURFACE**	**STRENGTH**	
		APRON WEST	CONC	PCN 88/R/C/W/T	
		APRON EAST	CONC	PCN 57/R/A/W/T	
		GENERAL AVIATION APRON	ASPH	PCN 30/F/A/W/T	
2	Taxiway width, surface and strength	**TWY**	**WIDTH (M)**	**SURFACE**	**STRENGTH**
		A	26	CONC	PCN 68/R/B/W/T
		B	37	CONC	PCN 54/R/A/W/T
		C	23	ASPH	PCN 54/F/A/W/T
		D	23	ASPH	PCN 35/F/A/W/T
		E	37	CONC	PCN 54/R/A/W/T
		F	23	CONC	PCN 54/R/A/W/T
		G	23	ASPH	PCN 95/F/B/X/T
		H	23	ASPH	PCN 95/F/B/X/T
		MC	23	ASPH	PCN 95/F/B/X/T
		R	15	ASPH	PCN 28/F/A/W/T
		T	11.25	CONC	PCN 40/R/D/W/T
3	ACL location and elevation	at Apron West 350 FT/107 M at Apron East 345 FT/105 M at General Aviation Apron 349 FT/107 M			
4	VOR checkpoints	Nil			
5	INS checkpoints	Apron West - see LDZA AD 2.24.2 APDC West -1 Apron East - see LDZA AD 2.24.2 APDC East -1			
6	Remarks	TWY A: grass shoulders, width 2x9 M TWY B and TWY E: grass shoulders, width 2x3.5 M TWY C and TWY D: grass shoulders, width 2x1 M TWY F: paved shoulders, width 2x3.5 M and grass shoulders width 2x7 M TWY G and TWY H: paved shoulders, width 2x10.5 M On TWY C and TWY F taxiing of four engine aircraft is forbidden with engines 1 and 4 active. TWY D prohibited to ACFT code letter D, E, F and code letter C with wheelbase more than 18 M. TWY T: Only for military ACFT (Military authorization required) ACFT Code Letter F has to await Follow me when entering part of TWY F from TWY C to TWY B for taxiing to parking position WB, WD and WE.			

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LDZA AD 2.11 METEOROLOGICAL INFORMATION PROVIDED

1	Associated MET Office	ZAGREB
2	Hours of service MET Office outside hours	H24
3	Office responsible for TAF preparation Periods of validity	ZAGREB TAF (24HR)
4	Trend Forecast Interval of issuance	TREND Continuous issuance H24
5	Briefing/consultation provided	Selfbriefing (URL: https://ib.crocontrol.hr) or by phone: +385 1 6259 240
6	Flight documentation Language(s) used	• Selfbriefing (URL: https://ib.crocontrol.hr) or request by phone: +385 1 6259 237 • Croatian, English
7	Charts and other information available for briefing or consultation	• ICE, TURB and CB forecasts • Lightning data • Satelite images • Radar images
8	Supplementary equipment available for providing information	VOLMET broadcast Telefax URL:https://met.crocontrol.hr
9	ATS units provided with information	Zagreb TWR, Zagreb APP
10	Additional information (limitation of service, etc.)	NIL

LDZA AD 2.12 RUNWAY PHYSICAL CHARACTERISTICS

Designations RWY NR	TRUE BRG	Dimensions of RWY (M)	Strength (PCN) and surface of RWY and SWY	THR COORD RWY End COORD THR Geoid Undulation	THR elevation and highest elevation of TDZ of precision APP RWY
1	2	3	4	5	6
04	046.79°	3252 x 45	390 M, CONC, PCN 68/R/B/W/T 106 M, CONC, PCN 54/R/A/W/T 2262 M, ASPH, PCN 54/F/A/W/T 494 M, CONC, PCN 54/R/A/W/T	454354.75N 0160307.09E 454506.86N 0160456.75E 148.2 FT	THR 353 FT TDZ 353 FT
22	226.81°	3252 x 45		454506.86N 0160456.75E 454354.75N 0160307.09E 148.2 FT	THR 348 FT TDZ 349 FT

Designations RWY NR	Slope of RWY-SWY	SWY dimensions (M)	CWY dimensions (M)	Strip dimensions (M)	RESA dimensions (M) and surface
1	7	8	9	10	11
04	Slope of RWY 04/22: 0%	NIL	NIL	3372 x 300	Length: 240 M Width: 90 M Surface: grass
22		NIL	NIL		Length: 240 M Width: 90 M Surface: grass

Designations RWY NR	Location and description of arresting system	OFZ	Remarks
1	12	13	14
04	NIL	NIL	Along RWY edges and turn pad RWY22, paved shoulders, width: 7.5 M RWY22 turn pad dimensions: length: 79 M and width: 71 M
22	NIL	NIL	

LDZA AD 2.13 DECLARED DISTANCES

RWY Designator	TORA (M)	TODA (M)	ASDA (M)	LDA (M)	Remarks
1	2	3	4	5	6
04	3252	3252	3252	3252	NIL
	2912	NIL	NIL	NIL	Intersection TWY B
	2162	NIL	NIL	NIL	Intersection TWY C
22	3252	3252	3252	3252	NIL
	2457	NIL	NIL	NIL	Intersection TWY D
	2916	NIL	NIL	NIL	Intersection TWY E

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LDZD AD 2.5 PASSENGER FACILITIES

1	Hotels	Hotels in Zadar and Biograd
2	Restaurants	At AD and in the city
3	Transportation	Bus, taxi, rent a car
4	Medical facilities	First aid at AD, hospital in Zadar and Biograd cities
5	Bank and Post Office	Bank and P.O. Box at AD and in the city
6	Tourist Office	In the city
7	Remarks	NIL

LDZD AD 2.6 RESCUE AND FIRE FIGHTING SERVICES

1	AD category for fire fighting	CAT 9 See Remarks
2	Rescue equipment	1 Heavy fire fighting vehicles "MAN FE 27410" 91001 1 Heavy fire fighting vehicles "VOLVO F 1220" 90001 1 Heavy fire fighting vehicles "ZIEGLER" 90001
3	Capability for removal of disabled aircraft	Towbarless tractor LECTRO up to 55 T MTOW
4	Remarks	CAT 5 during AD HR SER in winter season. CAT 7 during AD HR SER in summer season. CAT 6 up to CAT 9 AVBL upon 24 HR PPR sent via: SITA: ZADAPXH Phone: +385 23 205 832 Fax: +385 23 205 831 E-mail: groundops@zadar-airport.hr

LDZD AD 2.7 RUNWAY SURFACE CONDITION ASSESSMENT AND REPORTING, AND SNOW PLAN

1	Types of clearing equipment	Snow plough, brush
2	Clearance priorities	RWY 13/31, TWY G and H, Main Apron
3	Use of material for movement area surface treatment	NIL
4	Specially prepared winter runways	NIL
5	Remarks	Surface friction testers: Moventor Skiddometer BV11

LDZD AD 2.8 APRONS, TAXIWAYS AND CHECK LOCATIONS/POSITIONS DATA

1	Apron surface and strength	**APRON**	**SURFACE**	**STRENGTH**	
		MAIN APRON	ASPH	S1 PCN 65/F/B/W/T S2 PCN 93/F/B/W/T S3 PCN 57/F/B/W/T S4 PCN 55/F/B/X/T S6 PCN 132/F/B/X/T See: LDZD AD 2.24.2 APDC -1	
			CONC	S5 PCN 63/R/A/W/T See: LDZD AD 2.24.2 APDC -1	
		GENERAL AVIATION APRON	ASPH	PCN 15/F/B/Y/T	
2	Taxiway width, surface and strength	**TWY**	**WIDTH (M)**	**SURFACE**	**STRENGTH**
		A	15	CONC	PCN 55/R/B/W/T
		B	15	CONC	PCN 44/R/B/W/T
		C	10	ASPH	PCN 22/F/B/Y/T
		D	10	ASPH	PCN 22/F/B/Y/T
		E	15	CONC	PCN 20/R/B/W/T
		F	15	CONC	PCN 36/R/B/W/T
		G	27	ASPH	PCN 65/F/B/W/U
		H	15	CONC	PCN 50/R/B/W/T
		K	18	CONC+ASPH	CONC PCN 63/R/A/W/T ASPH PCN 47/F/B/X/T
		L	10.5	ASPH	PCN 15/F/B/Y/T
3	ACL location and elevation	At Main apron 269 FT			
4	VOR checkpoints	NIL			
5	INS checkpoints	See LDZD AD 2.24.2 APDC -1			
6	Remarks	TWYs B, C, D, E and F are closed to civil traffic. TWYs A and H are available only for aircraft with outer main gear wheel span up to but not including 9 M. When landing RWY 31, ACFT with outer main gear wheel span equal or larger than 9 M can expect backtrack to vacate the RWY via TWY G because no RWY turning bay on THR 13.			

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LDZD AD 2.12 RUNWAY PHYSICAL CHARACTERISTICS

Designations RWY NR	TRUE BRG	Dimensions of RWY (M)	Strength (PCN) and surface of RWY and SWY	THR COORD RWY End COORD THR Geoid Undulation	THR elevation and highest elevation of TDZ of precision APP RWY
1	2	3	4	5	6
04	041.62°	2000 x 45	45/F/B/X/T ASPH	440445.81N 0152028.19E 440534.11N 0152127.73E 140 FT	THR 289 FT
22	221.63°			440533.96N 0152127.55E 440445.66N 0152028.00E 140 FT	THR 272 FT
13	135.69°	2500 x 45	44/F/B/W/T ASPH	440658.98N 0152008.50E 440601.15N 0152126.83E 140 FT	THR 243 FT TDZ 251 FT
31	315.71°			440601.29N 0152126.65E 440659.12N 0152008.31E 140 FT	THR 258 FT TDZ 259 FT

Designations RWY NR	Slope of RWY-SWY	SWY dimensions (M)	CWY dimensions (M)	Strip dimensions (M)	RESA dimensions (M)
1	7	8	9	10	11
04	Slope of RWY: -1.4% (0 - 181 M) -0.5% (181 - 1271 M) 0.2% (1271 - 1746 M) 0.9%(1746 - 2000 M)	Nil	Nil	2120 x 150	Length: 140 M Width: 90 M
22	Slope of RWY: -0.9% (0 - 254 M) -0.2% (254 - 729 M) 0.5% (729 - 1819 M) 1.4% (1819 - 2000 M)	Nil	Nil		Length: 170 M Width: 90 M
13	Slope of RWY: 0.5% (0 - 307 M) 0.2% (307 - 1912 M) -0.1% (1912 - 2330 M) 0.1% (2330 - 2500 M)	Nil	Nil	2620 x 300	Length: 240 M Width: 90 M
31	Slope of RWY: -0.1% (0 - 170 M) 0.1% (170 - 588 M) -0.2% (588 - 2193 M) -0.5% (2193 - 2500 M)	Nil	Nil		Length: 240 M Width: 90 M

Designations RWY NR	Location and description of arresting system	OFZ	Remarks
1	12	13	14
04	Nil	Nil	Nil
22	Nil	Nil	Nil
13	Nil	Nil	Nil
31	Nil	Nil	Nil

LDZD AD 2.13 DECLARED DISTANCES

RWY Designator	TORA (M)	TODA (M)	ASDA (M)	LDA (M)	Remarks
1	2	3	4	5	6
04	2000	2000	2000	2000	Nil
22	2000	2000	2000	2000	Nil
13	2500	2500	2500	2500	Nil
31	2500	2500	2500	2500	Nil

LDZD AD 2.14 APPROACH AND RUNWAY LIGHTING

RWY Designator	APCH LGT type / LEN / INTST	THR LGT colour / WBAR	VASIS (MEHT) PAPI	TDZ LGT LEN	RWY Centre Line LGT LEN / spacing / colour / INTST	RWY edge LGT LEN / spacing / colour / INTST	RWY End LGT Colour / WBAR	SWY LGT LEN (M) / Colour	Remarks
1	2	3	4	5	6	7	8	9	10
04	SALS (E) 420 M W VRB LIH	GRN VRB LIH	PAPI 3°	Nil	Nil	YCZ 600 M 50 M W VRB LIH	RED VRB LIH	Nil	Nil
22	Nil	Nil	Nil	Nil	Nil	YCZ 600 M 50 M W VRB LIH	RED VRB LIH	Nil	Nil
13	CAT I (A) 900 M W VRB LIH	GRN VRB LIH	PAPI 3°	Nil	Nil	YCZ 600 M 60 M W VRB LIH	RED VRB LIH	Nil	Nil
31	SALS (E) 420 M W VRB LIH	GRN VRB LIH	PAPI 3°	Nil	Nil	YZC 600 M 60 M W VRB LIH	RED VRB LIH	Nil	Nil

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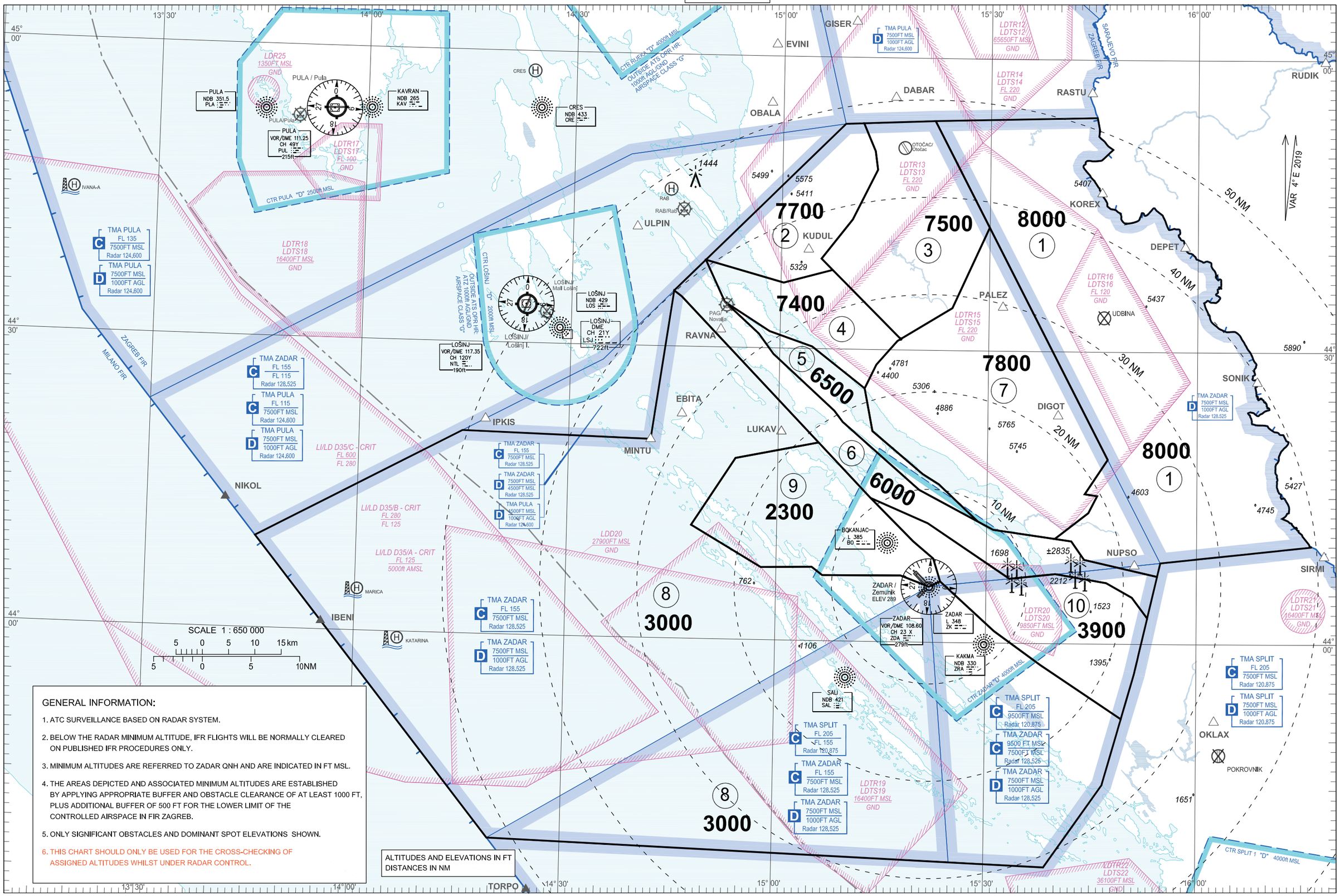
ATC SURVEILLANCE MINIMUM ALTITUDE CHART - ICAO

TRANSITION ALTITUDE 10 000

AD ELEV 289

ZADAR RADAR 128.525
ZADAR TOWER 123.700

ZADAR/ Zemunik
CROATIA



CHANGE: Sector 10 MNM ALT; Obstacles; GS L and VL L withdrawn; Editorial.

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LIST OF COORDINATES FOR
MINIMUM VECTORING ALTITUDE SECTORS

SECTOR 1	WGS-84 latitude	WGS-84 longitude
	445403N	0154522E
	along the FIR boundary Zagreb/Sarajevo	
	441003N	0161628E
	440821N	0155450E
	440658N	0155423E
	440839N	0154357E
	441032N	0154206E
	441046N	0153945E
	441327N	0154431E
	441512N	0154545E
	441524N	0154358E
	441857N	0154713E
	444241N	0152957E
	445334N	0152156E
	445403N	0154522E

SECTOR 2	WGS-84 latitude	WGS-84 longitude
	445308N	0150900E
	445314N	0151136E
	445023N	0151320E
	444829N	0151343E
	444320N	0151011E
	443915N	0150547E
	443807N	0150724E
	443644N	0150024E
	443855N	0144908E
	445308N	0150900E

SECTOR 3	WGS-84 latitude	WGS-84 longitude
	445314N	0151136E
	445334N	0152156E
	444241N	0152957E
	443422N	0152442E
	443107N	0151720E
	443807N	0150724E
	443915N	0150547E
	444320N	0151011E
	444829N	0151343E
	445023N	0151320E
	445314N	0151136E

SECTOR 4	WGS-84 latitude	WGS-84 longitude
	443855N	0144908E
	443644N	0150024E
	443807N	0150724E
	443107N	0151720E
	442827N	0151354E
	442600N	0151216E
	443013N	0150438E
	443142N	0145830E
	443438N	0145159E
	443855N	0144908E

SECTOR 5	WGS-84 latitude	WGS-84 longitude
	443438N	0145159E
	443142N	0145830E
	443013N	0150438E
	442600N	0151216E
	442137N	0151329E
	441716N	0152046E
	441615N	0152305E
	441228N	0152844E
	441539N	0152018E
	442231N	0150912E
	442339N	0150758E
	442923N	0145907E
	443127N	0145656E
	443438N	0145159E

SECTOR 6	WGS-84 latitude	WGS-84 longitude
	443855N	0144908E
	443438N	0145159E
	443127N	0145656E
	442923N	0145907E
	442339N	0150758E
	442231N	0150912E
	441539N	0152018E
	441228N	0152844E
	441138N	0153056E
	441046N	0153945E
	441032N	0154206E
	440839N	0154357E
	440658N	0155423E
	440241N	0155301E
	440448N	0155049E
	440617N	0154708E
	440709N	0153951E
	440638N	0153321E
	441214N	0152135E
	441445N	0151322E
	442021N	0150548E
	443508N	0144545E
	443542N	0144440E
	443824N	0144824E
	443855N	0144908E

SECTOR 7	WGS-84 latitude	WGS-84 longitude
	444241N	0152957E
	441857N	0154713E
	441524N	0154358E
	441512N	0154545E
	441327N	0154431E
	441046N	0153945E
	441138N	0153056E
	441228N	0152844E
	441615N	0152305E
	441716N	0152046E
	442137N	0151329E
	442600N	0151216E
	442827N	0151354E
	443107N	0151720E
	443422N	0152442E
	444241N	0152957E

SECTOR 8	WGS-84 latitude	WGS-84 longitude
	443542N	0144440E
	443508N	0144545E
	442021N	0150548E
	441837N	0145357E
	441140N	0144747E
	440728N	0145750E
	440735N	0150505E
	440644N	0150638E
	440650N	0151747E
	440543N	0152151E
	440616N	0152328E
	440114N	0153113E
	435747N	0153754E
	435218N	0154922E
	434902N	0154806E
	434530N	0154643E
	433700N	0153833E
	433902N	0141944E
	440926N	0134535E
	442050N	0141447E
	442024N	0144144E
	443542N	0144440E

SECTOR 9	WGS-84 latitude	WGS-84 longitude
	442021N	0150548E
	441445N	0151322E
	441019N	0151934E
	440837N	0152226E
	440616N	0152328E
	440543N	0152151E
	440650N	0151747E
	440644N	0150638E
	440735N	0150505E
	440728N	0145750E
	441140N	0144747E
	441837N	0145357E
	442021N	0150548E

SECTOR 10	WGS-84 latitude	WGS-84 longitude
	441445N	0151322E
	441214N	0152135E
	440638N	0153321E
	440709N	0153951E
	440617N	0154708E
	440448N	0155049E
	440241N	0155301E
	435846N	0155146E
	435700N	0155113E
	435218N	0154922E
	435747N	0153754E
	440114N	0153113E
	440616N	0152328E
	440837N	0152226E
	441019N	0151934E
	441445N	0151322E

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