REPUBLIC OF CROATIA

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AIRAC AIP AMDT 001/2023
Effective Date: 23 FEB 2023
Publication Date: 12 JAN 2023

1. Amendment contents:

GEN

- GEN 0.2 - Record of AIP amendments - updated
- GEN 0.3 - Record of AIP supplements - updated
- GEN 0.4 - Checklist of AIP pages - updated
- GEN 2.7 - Sunrise / Sunset - various changes

ENR

- ENR 1.14 - Air traffic incidents - various changes

AD

- LDDU AD 2.20 - Local aerodrome regulations - ground movement restrictions for ACFT code letter F added
- LDLO AD - New chart:
  - Aerodrome Chart - ICAO (LDLO AD 2.24.1 ADC - 1/2)
- LDRI AD 2.20 - Local aerodrome regulations - new items 2.20.1 Taxi procedures and 2.20.2 Four-engine aircraft operation added

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: NIL

SUP: NIL

AIC: NIL

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

Insert the following pages:		**Remove the following pages:**	
GEN 0.2 - 3/4	30 DEC 2021 / 23 FEB 2023	GEN 0.2 - 3/4	30 DEC 2021 / 26 JAN 2023
GEN 0.3 - 1/2	23 FEB 2023 / 01 FEB 2018	GEN 0.3 - 1/2	29 DEC 2022 / 01 FEB 2018
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GEN 2.7 - 1/2	23 FEB 2023 / 23 FEB 2023	GEN 2.7 - 1/2	13 SEP 2018 / 08 MAR 2012
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LDDU AD 2 - 11/12	08 SEP 2022 / 23 FEB 2023	LDDU AD 2 - 11/12	08 SEP 2022 / 21 APR 2022
LDLO AD 2.24.1 ADC - 1/2	23 FEB 2023 / 23 FEB 2023	LDLO AD 2.24.1 ADC - 1/2	25 APR 2019 / 25 APR 2019
LDRI AD 2 - 7/8	20 MAY 2021 / 23 FEB 2023	LDRI AD 2 - 7/8	20 MAY 2021 / 12 AUG 2021
LDRI AD 2 - 9/10	23 FEB 2023 / 23 FEB 2023	LDRI AD 2 - 9/10	20 MAY 2021 / 20 MAY 2021
LDRI AD 2 - 11/12	23 FEB 2023 / 23 FEB 2023	LDRI AD 2 - 11/12	06 OCT 2022 / 06 OCT 2022

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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	
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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	
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001/2020	16-Jan-2020	27-Feb-2020	
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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	
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013/2021	16-Dec-2021	27-Jan-2022	
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002/2022	10-Feb-2022	24-Mar-2022	
003/2022	10-Mar-2022	21-Apr-2022	
004/2022	07-Apr-2022	19-May-2022	
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GEN 0.3 RECORD OF AIP SUPPLEMENTS

NR/Year	Subject	AIP Section(s) Affected	Period of Validity	Cancellation Record
002/2022	LDZD - ZADAR/Zemunik Airport - Construction of the AWOS meteorological system infrastructure	LDZD AD 2	06-Oct-2022 - UFN	
003/2022	LDZD - ZADAR/Zemunik Airport - Works on the Main apron reconstruction	LDZD AD 2	03-Nov-2022 - UFN	
004/2022	LDSP - Airport SPLIT/Kastela - Publication of trial PBN instrument flight procedures	LDSP AD 2	01-Dec-2022 - UFN	
001/2023	LDRI - RIJEKA/Krk I. Airport -Construction of the AWOS meteorological system infrastructure	LDRI AD 2	23-Feb-2023 - UFN	
002/2023	LDZA - ZAGREB/Franjo Tudjman Airport - Remedition works at the part of asphalt pavement on the RWY 04/22 and TWY F	LDZA AD 2	23-Feb-2023 - UFN	

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GEN 0.4 CHECKLIST OF AIP PAGES

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PART 3 - AERODROMES (AD)

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LDRI AD 2.24.12 IAC VOR RWY 32 - 2	07 OCT 2021
LDRI AD 2.24.13 VOC - 1	04 NOV 2021
LDRI AD 2.24.13 VOC - 2	04 NOV 2021
LDSB AD 2 - 1	01 DEC 2022
LDSB AD 2 - 2	15 JUL 2021
LDSB AD 2 - 3	01 DEC 2022
LDSB AD 2 - 4	20 MAY 2021
LDSB AD 2 - 5	02 DEC 2021
LDSB AD 2 - 6	03 NOV 2022
LDSB AD 2 - 7	20 MAY 2021
LDSB AD 2 - 8	20 MAY 2021
LDSB AD 2 - 9	20 MAY 2021
LDSB AD 2 - 10	20 MAY 2021
LDSB AD 2 - 11	20 MAY 2021
LDSB AD 2 - 12	20 MAY 2021
LDSB AD 2.24.1 ADC - 1	15 JUL 2021
LDSB AD 2.24.1 ADC - 2	15 JUL 2021
LDSB AD 2.24.2 APDC - 1	20 JUN 2019
LDSB AD 2.24.2 APDC - 2	20 JUN 2019
LDSB AD 2.24.4 AOC RWY 03/21 - 1	20 MAY 2021
LDSB AD 2.24.8 SID RWY 03 CAT A/B&C - 1	20 MAY 2021
LDSB AD 2.24.8 SID RWY 03 CAT A/B&C - 2	20 MAY 2021
LDSB AD 2.24.8 SID RNAV RWY 03 - 1	20 MAY 2021
LDSB AD 2.24.8 SID RNAV RWY 03 - 2	20 MAY 2021
LDSB AD 2.24.8 SID RWY 21 CAT A/B&C - 1	20 MAY 2021
LDSB AD 2.24.8 SID RWY 21 CAT A/B&C - 2	20 MAY 2021
LDSB AD 2.24.8 SID RNAV RWY 21 - 1	20 MAY 2021
LDSB AD 2.24.8 SID RNAV RWY 21 - 2	20 MAY 2021
LDSB AD 2.24.10 STAR RWY 03/21 CAT A/B&C - 1	20 MAY 2021
LDSB AD 2.24.10 STAR RWY 03/21 CAT A/B&C - 2	20 MAY 2021
LDSB AD 2.24.10 STAR RNAV RWY 03-21 - 1	19 MAY 2022
LDSB AD 2.24.10 STAR RNAV RWY 03-21 - 2	19 MAY 2022
LDSB AD 2.24.12 IAC NDB RWY 03 - 1	20 MAY 2021

GEN 2.7 SUNRISE / SUNSET

The tables on the following pages have been prepared by the Zagreb Astronomical Observatory and are reproduced here with their permission. The tables include 9 aerodromes.

The times in the tables are given in UTC for beginning of civil morning twilight, sunrise (SR), sunset (SS), and end of civil evening twilight, and are averaged for the years from 2022 to 2030.

In this period, the times on an arbitrary date and place will deviate less than 2 MIN from the theoretically calculated times that can be found in the tables. The times given for beginning of civil morning twilight and end of civil evening twilight are calculated for an altitude of the Sun 6° below the horizon, as commonly used.

The times given for sunrise and sunset refer to the moment when the upper edge of the Sun is exactly on the theoretically flat horizon (e.g. sea surface), with a refraction amount of 34'. The horizon configuration is not taken into account and therefore the actual sunrise and sunset times will differ from the data in the table. These deviations, depending on atmospheric conditions and horizon configuration, can be several minutes long.

Date	BRAČ LDSB 43 17 09N 016 40 47E				DUBROVNIK LDDU 42 33 40N 018 16 05E			
	Twilight From	SR	SS	Twilight To	Twilight From	SR	SS	Twilight To
01 JAN	05:53	06:26	15:28	16:01	05:45	06:17	15:24	15:56
05 JAN	05:53	06:26	15:32	16:04	05:45	06:17	15:28	16:00
09 JAN	05:53	06:25	15:36	16:08	05:45	06:16	15:32	16:03
13 JAN	05:52	06:24	15:41	16:12	05:44	06:15	15:36	16:08
17 JAN	05:50	06:22	15:45	16:17	05:42	06:13	15:41	16:12
21 JAN	05:48	06:19	15:50	16:22	05:40	06:11	15:46	16:17
25 JAN	05:45	06:16	15:56	16:26	05:37	06:08	15:51	16:21
29 JAN	05:42	06:12	16:01	16:31	05:34	06:04	15:56	16:26
02 FEB	05:38	06:08	16:06	16:36	05:30	06:00	16:02	16:31
06 FEB	05:34	06:04	16:12	16:42	05:26	05:56	16:07	16:36
10 FEB	05:29	05:58	16:17	16:47	05:22	05:51	16:12	16:41
14 FEB	05:24	05:53	16:22	16:52	05:16	05:45	16:17	16:46
18 FEB	05:18	05:47	16:28	16:57	05:11	05:40	16:22	16:51
22 FEB	05:12	05:41	16:33	17:02	05:05	05:34	16:28	16:56
26 FEB	05:06	05:35	16:38	17:07	04:59	05:28	16:33	17:01
02 MAR	04:59	05:28	16:43	17:12	04:53	05:21	16:38	17:06
06 MAR	04:53	05:21	16:48	17:17	04:46	05:14	16:43	17:11
10 MAR	04:46	05:14	16:53	17:22	04:40	05:08	16:47	17:15
14 MAR	04:39	05:07	16:58	17:27	04:33	05:01	16:52	17:20
18 MAR	04:32	05:00	17:03	17:32	04:26	04:54	16:57	17:25
22 MAR	04:25	04:53	17:08	17:36	04:19	04:47	17:01	17:30
26 MAR	04:17	04:46	17:13	17:41	04:12	04:40	17:06	17:34
30 MAR	04:10	04:39	17:17	17:46	04:05	04:33	17:11	17:39
03 APR	04:03	04:32	17:22	17:51	03:57	04:26	17:15	17:44

Date	BRAČ LDSB 43 17 09N 016 40 47E				DUBROVNIK LDDU 42 33 40N 018 16 05E			
	Twilight From	SR	SS	Twilight To	Twilight From	SR	SS	Twilight To
07 APR	03:56	04:25	17:27	17:56	03:50	04:19	17:20	17:48
11 APR	03:49	04:18	17:31	18:01	03:43	04:12	17:24	17:53
15 APR	03:42	04:11	17:36	18:06	03:37	04:06	17:29	17:58
19 APR	03:35	04:05	17:41	18:11	03:30	04:00	17:33	18:03
23 APR	03:28	03:58	17:46	18:16	03:23	03:53	17:38	18:08
27 APR	03:22	03:52	17:50	18:21	03:17	03:47	17:42	18:13
01 MAY	03:15	03:47	17:55	18:26	03:11	03:42	17:47	18:18
05 MAY	03:10	03:41	17:59	18:31	03:05	03:37	17:51	18:23
09 MAY	03:04	03:36	18:04	18:36	03:00	03:32	17:56	18:28
13 MAY	02:59	03:32	18:08	18:41	02:55	03:27	18:00	18:32
17 MAY	02:54	03:27	18:13	18:46	02:51	03:23	18:04	18:37
21 MAY	02:50	03:24	18:17	18:50	02:46	03:19	18:08	18:41
25 MAY	02:46	03:20	18:21	18:55	02:43	03:16	18:12	18:45
29 MAY	02:43	03:18	18:24	18:59	02:40	03:14	18:15	18:49
02 JUN	02:41	03:16	18:27	19:02	02:37	03:12	18:19	18:53
06 JUN	02:39	03:14	18:30	19:06	02:36	03:10	18:21	18:56
10 JUN	02:38	03:13	18:33	19:08	02:34	03:09	18:24	18:59
14 JUN	02:37	03:13	18:35	19:10	02:34	03:09	18:26	19:01
18 JUN	02:37	03:13	18:36	19:12	02:34	03:09	18:27	19:02
22 JUN	02:38	03:13	18:37	19:13	02:35	03:10	18:28	19:03
26 JUN	02:39	03:15	18:38	19:13	02:36	03:11	18:29	19:04
30 JUN	02:41	03:16	18:37	19:13	02:38	03:13	18:28	19:03
04 JUL	02:43	03:19	18:37	19:12	02:40	03:15	18:28	19:02
08 JUL	02:46	03:21	18:35	19:10	02:43	03:17	18:26	19:01
12 JUL	02:50	03:24	18:33	19:08	02:46	03:20	18:24	18:58
16 JUL	02:53	03:28	18:31	19:05	02:50	03:24	18:22	18:56
20 JUL	02:57	03:31	18:28	19:01	02:54	03:27	18:19	18:52
24 JUL	03:02	03:35	18:24	18:57	02:58	03:31	18:15	18:48
28 JUL	03:06	03:39	18:20	18:53	03:02	03:35	18:11	18:44
01 AUG	03:11	03:43	18:15	18:48	03:07	03:39	18:07	18:39
05 AUG	03:16	03:48	18:10	18:42	03:12	03:43	18:02	18:34
09 AUG	03:20	03:52	18:05	18:36	03:16	03:47	17:57	18:28
13 AUG	03:25	03:56	17:59	18:30	03:21	03:52	17:51	18:22
17 AUG	03:30	04:01	17:53	18:24	03:26	03:56	17:45	18:16
21 AUG	03:35	04:05	17:47	18:17	03:30	04:00	17:39	18:09
25 AUG	03:40	04:10	17:40	18:10	03:35	04:04	17:33	18:02
29 AUG	03:44	04:14	17:34	18:03	03:39	04:09	17:26	17:55

Date	BRAČ LDSB 43 17 09N 016 40 47E				DUBROVNIK LDDU 42 33 40N 018 16 05E			
	Twilight From	SR	SS	Twilight To	Twilight From	SR	SS	Twilight To
02 SEP	03:49	04:18	17:27	17:56	03:44	04:13	17:20	17:48
06 SEP	03:54	04:23	17:20	17:49	03:48	04:17	17:13	17:41
10 SEP	03:58	04:27	17:12	17:41	03:53	04:21	17:06	17:34
14 SEP	04:03	04:32	17:05	17:34	03:57	04:26	16:59	17:27
18 SEP	04:07	04:36	16:58	17:26	04:02	04:30	16:51	17:20
22 SEP	04:12	04:40	16:51	17:19	04:06	04:34	16:44	17:12
26 SEP	04:17	04:45	16:43	17:12	04:10	04:39	16:37	17:05
30 SEP	04:21	04:49	16:36	17:05	04:15	04:43	16:30	16:58
04 OCT	04:26	04:54	16:29	16:58	04:19	04:47	16:23	16:51
08 OCT	04:30	04:59	16:22	16:51	04:24	04:52	16:16	16:45
12 OCT	04:35	05:03	16:15	16:44	04:28	04:56	16:10	16:38
16 OCT	04:39	05:08	16:09	16:37	04:33	05:01	16:03	16:32
20 OCT	04:44	05:13	16:02	16:31	04:37	05:06	15:57	16:26
24 OCT	04:49	05:18	15:56	16:25	04:42	05:11	15:51	16:20
28 OCT	04:54	05:23	15:50	16:20	04:47	05:16	15:45	16:14
01 NOV	04:59	05:28	15:45	16:15	04:51	05:21	15:40	16:09
05 NOV	05:03	05:33	15:40	16:10	04:56	05:26	15:35	16:05
09 N0V	05:08	05:39	15:35	16:05	05:01	05:31	15:30	16:00
13 NOV	05:13	05:44	15:31	16:01	05:05	05:36	15:26	15:56
17 NOV	05:18	05:49	15:27	15:58	05:10	05:41	15:23	15:53
21 NOV	05:23	05:54	15:24	15:55	05:15	05:45	15:20	15:50
25 NOV	05:27	05:59	15:21	15:53	05:19	05:50	15:17	15:48
29 NOV	05:32	06:03	15:20	15:51	05:23	05:55	15:15	15:47
03 DEC	05:36	06:08	15:18	15:50	05:27	05:59	15:14	15:46
07 DEC	05:39	06:12	15:18	15:50	05:31	06:03	15:14	15:45
11 DEC	05:43	06:15	15:18	15:50	05:35	06:07	15:14	15:46
15 DEC	05:46	06:18	15:18	15:51	05:38	06:10	15:14	15:46
19 DEC	05:49	06:21	15:20	15:52	05:40	06:12	15:16	15:48
23 DEC	05:51	06:23	15:22	15:54	05:42	06:14	15:18	15:50
27 DEC	05:52	06:25	15:24	15:57	05:44	06:16	15:20	15:52
31 DEC	05:53	06:25	15:27	16:00	05:45	06:17	15:23	15:55

Date	LOŠINJ LDLO 44 33 57N 014 23 35E				OSIJEK LDOS 45 27 46N 018 48 37E			
	Twilight From	SR	SS	Twilight To	Twilight From	SR	SS	Twilight To
01 JAN	06:06	06:39	15:33	16:06	05:51	06:25	15:12	15:46
05 JAN	06:06	06:39	15:37	16:10	05:51	06:25	15:16	15:50
09 JAN	06:05	06:38	15:41	16:14	05:50	06:24	15:20	15:54
13 JAN	06:04	06:37	15:46	16:18	05:49	06:22	15:25	15:58
17 JAN	06:02	06:35	15:51	16:23	05:47	06:20	15:30	16:03
21 JAN	06:00	06:32	15:56	16:28	05:44	06:17	15:35	16:08
25 JAN	05:57	06:29	16:01	16:33	05:41	06:13	15:41	16:13
29 JAN	05:53	06:25	16:07	16:38	05:38	06:09	15:47	16:19
02 FEB	05:49	06:20	16:12	16:43	05:33	06:05	15:53	16:24
06 FEB	05:45	06:15	16:18	16:49	05:29	06:00	15:58	16:30
10 FEB	05:40	06:10	16:24	16:54	05:23	05:54	16:04	16:35
14 FEB	05:34	06:04	16:29	16:59	05:18	05:48	16:10	16:41
18 FEB	05:29	05:58	16:35	17:05	05:12	05:42	16:16	16:46
22 FEB	05:23	05:52	16:40	17:10	05:06	05:36	16:22	16:52
26 FEB	05:16	05:45	16:46	17:15	04:59	05:29	16:27	16:57
02 MAR	05:09	05:38	16:52	17:21	04:52	05:21	16:33	17:03
06 MAR	05:02	05:31	16:57	17:26	04:45	05:14	16:39	17:08
10 MAR	04:55	05:24	17:02	17:31	04:37	05:07	16:44	17:13
14 MAR	04:48	05:17	17:07	17:36	04:30	04:59	16:49	17:19
18 MAR	04:40	05:09	17:12	17:41	04:22	04:52	16:55	17:24
22 MAR	04:33	05:02	17:17	17:46	04:15	04:44	17:00	17:29
26 MAR	04:25	04:55	17:22	17:52	04:07	04:37	17:05	17:35
30 MAR	04:18	04:47	17:27	17:57	03:59	04:29	17:10	17:40
03 APR	04:10	04:40	17:32	18:02	03:51	04:21	17:15	17:45
07 APR	04:03	04:33	17:37	18:07	03:44	04:14	17:21	17:51
11 APR	03:55	04:25	17:42	18:12	03:36	04:07	17:26	17:56
15 APR	03:48	04:19	17:47	18:18	03:29	04:00	17:31	18:02
19 APR	03:41	04:12	17:52	18:23	03:21	03:53	17:36	18:07
23 APR	03:34	04:05	17:57	18:28	03:14	03:46	17:41	18:13
27 APR	03:27	03:59	18:02	18:34	03:07	03:39	17:46	18:19
01 MAY	03:21	03:53	18:07	18:39	03:00	03:33	17:51	18:24
05 MAY	03:15	03:47	18:12	18:44	02:54	03:27	17:56	18:30
09 MAY	03:09	03:42	18:17	18:50	02:48	03:22	18:01	18:35
13 MAY	03:03	03:37	18:21	18:55	02:42	03:17	18:06	18:41
17 MAY	02:59	03:33	18:26	19:00	02:37	03:12	18:11	18:46
21 MAY	02:54	03:29	18:30	19:05	02:33	03:08	18:15	18:51
25 MAY	02:50	03:25	18:34	19:09	02:29	03:05	18:19	18:56

Date	LOŠINJ LDLO 44 33 57N 014 23 35E				OSIJEK LDOS 45 27 46N 018 48 37E			
	Twilight From	SR	SS	Twilight To	Twilight From	SR	SS	Twilight To
29 MAY	02:47	03:22	18:38	19:13	02:25	03:02	18:23	19:00
02 JUN	02:44	03:20	18:41	19:17	02:22	02:59	18:27	19:04
06 JUN	02:42	03:18	18:44	19:21	02:20	02:57	18:30	19:07
10 JUN	02:41	03:17	18:47	19:23	02:19	02:56	18:33	19:10
14 JUN	02:40	03:17	18:49	19:26	02:18	02:56	18:35	19:13
18 JUN	02:40	03:17	18:50	19:27	02:18	02:56	18:36	19:14
22 JUN	02:41	03:18	18:51	19:28	02:18	02:56	18:37	19:15
26 JUN	02:42	03:19	18:52	19:28	02:20	02:58	18:37	19:15
30 JUN	02:44	03:21	18:51	19:28	02:22	03:00	18:37	19:15
04 JUL	02:47	03:23	18:50	19:27	02:24	03:02	18:36	19:14
08 JUL	02:50	03:26	18:49	19:25	02:28	03:05	18:35	19:12
12 JUL	02:53	03:29	18:47	19:23	02:31	03:08	18:32	19:09
16 JUL	02:57	03:33	18:44	19:19	02:35	03:12	18:30	19:06
20 JUL	03:01	03:36	18:41	19:16	02:40	03:16	18:26	19:02
24 JUL	03:06	03:40	18:37	19:11	02:45	03:20	18:22	18:57
28 JUL	03:11	03:45	18:33	19:06	02:49	03:24	18:18	18:52
01 AUG	03:16	03:49	18:28	19:01	02:55	03:29	18:13	18:47
05 AUG	03:21	03:54	18:23	18:55	03:00	03:33	18:07	18:41
09 AUG	03:26	03:58	18:17	18:49	03:05	03:38	18:02	18:34
13 AUG	03:31	04:03	18:11	18:43	03:10	03:43	17:55	18:28
17 AUG	03:36	04:07	18:05	18:36	03:16	03:48	17:49	18:21
21 AUG	03:41	04:12	17:58	18:29	03:21	03:53	17:42	18:14
25 AUG	03:46	04:17	17:51	18:22	03:26	03:58	17:35	18:06
29 AUG	03:51	04:21	17:44	18:15	03:32	04:02	17:28	17:59
02 SEP	03:56	04:26	17:37	18:07	03:37	04:07	17:21	17:51
06 SEP	04:01	04:31	17:30	18:00	03:42	04:12	17:13	17:43
10 SEP	04:06	04:35	17:23	17:52	03:47	04:17	17:06	17:35
14 SEP	04:11	04:40	17:15	17:44	03:52	04:22	16:58	17:28
18 SEP	04:16	04:45	17:08	17:37	03:57	04:27	16:50	17:20
22 SEP	04:20	04:49	17:00	17:29	04:02	04:32	16:42	17:12
26 SEP	04:25	04:54	16:52	17:21	04:07	04:37	16:35	17:04
30 SEP	04:30	04:59	16:45	17:14	04:12	04:42	16:27	16:56
04 OCT	04:35	05:04	16:38	17:07	04:17	04:47	16:19	16:49
08 OCT	04:40	05:09	16:30	16:59	04:22	04:52	16:12	16:42
12 OCT	04:45	05:14	16:23	16:53	04:27	04:57	16:05	16:34
16 OCT	04:49	05:19	16:16	16:46	04:32	05:02	15:58	16:28
20 OCT	04:54	05:24	16:10	16:39	04:38	05:08	15:51	16:21

Date	LOŠINJ LDLO 44 33 57N 014 23 35E				OSIJEK LDOS 45 27 46N 018 48 37E			
	Twilight From	SR	SS	Twilight To	Twilight From	SR	SS	Twilight To
24 OCT	04:59	05:29	16:03	16:33	04:43	05:13	15:44	16:14
28 OCT	05:04	05:35	15:57	16:27	04:48	05:19	15:38	16:08
01 NOV	05:10	05:40	15:51	16:22	04:53	05:24	15:32	16:03
05 NOV	05:15	05:45	15:46	16:17	04:58	05:30	15:26	15:58
09 N0V	05:20	05:51	15:41	16:12	05:04	05:35	15:21	15:53
13 NOV	05:25	05:56	15:37	16:08	05:09	05:41	15:17	15:49
17 NOV	05:30	06:01	15:33	16:05	05:14	05:46	15:13	15:45
21 NOV	05:35	06:07	15:29	16:01	05:19	05:52	15:09	15:42
25 NOV	05:39	06:12	15:27	15:59	05:24	05:57	15:06	15:39
29 NOV	05:44	06:17	15:25	15:57	05:29	06:02	15:04	15:37
03 DEC	05:48	06:21	15:23	15:56	05:33	06:06	15:02	15:36
07 DEC	05:52	06:25	15:22	15:56	05:37	06:11	15:02	15:35
11 DEC	05:56	06:29	15:22	15:56	05:40	06:14	15:01	15:35
15 DEC	05:59	06:32	15:23	15:56	05:44	06:18	15:02	15:36
19 DEC	06:01	06:35	15:24	15:58	05:46	06:20	15:03	15:37
23 DEC	06:03	06:37	15:26	16:00	05:48	06:23	15:05	15:39
27 DEC	06:05	06:38	15:29	16:02	05:50	06:24	15:08	15:42
31 DEC	06:06	06:39	15:32	16:05	05:51	06:25	15:11	15:45

Date	PULA LDPL 44 53 37N 013 55 20E				RIJEKA LDRI 45 13 01N 014 43 13E			
	Twilight From	SR	SS	Twilight To	Twilight From	SR	SS	Twilight To
01 JAN	06:09	06:42	15:34	16:07	06:06	06:40	15:29	16:03
05 JAN	06:09	06:42	15:37	16:11	06:06	06:40	15:33	16:07
09 JAN	06:08	06:41	15:42	16:15	06:06	06:39	15:37	16:11
13 JAN	06:07	06:40	15:46	16:19	06:05	06:38	15:42	16:15
17 JAN	06:05	06:38	15:51	16:24	06:03	06:35	15:47	16:20
21 JAN	06:03	06:35	15:57	16:29	06:00	06:33	15:53	16:25
25 JAN	06:00	06:31	16:02	16:34	05:57	06:29	15:58	16:30
29 JAN	05:56	06:27	16:08	16:39	05:53	06:25	16:04	16:35
02 FEB	05:52	06:23	16:14	16:45	05:49	06:21	16:10	16:41
06 FEB	05:47	06:18	16:19	16:50	05:45	06:16	16:15	16:46
10 FEB	05:42	06:13	16:25	16:55	05:39	06:10	16:21	16:52
14 FEB	05:37	06:07	16:31	17:01	05:34	06:04	16:27	16:57
18 FEB	05:31	06:01	16:36	17:06	05:28	05:58	16:33	17:03
22 FEB	05:25	05:54	16:42	17:12	05:22	05:52	16:38	17:08

Date	PULA LDPL 44 53 37N 013 55 20E				RIJEKA LDRI 45 13 01N 014 43 13E			
	Twilight From	SR	SS	Twilight To	Twilight From	SR	SS	Twilight To
26 FEB	05:18	05:48	16:47	17:17	05:15	05:45	16:44	17:14
02 MAR	05:11	05:40	16:53	17:22	05:08	05:38	16:50	17:19
06 MAR	05:04	05:33	16:58	17:28	05:01	05:30	16:55	17:25
10 MAR	04:57	05:26	17:04	17:33	04:54	05:23	17:00	17:30
14 MAR	04:50	05:19	17:09	17:38	04:46	05:16	17:06	17:35
18 MAR	04:42	05:11	17:14	17:43	04:39	05:08	17:11	17:40
22 MAR	04:35	05:04	17:19	17:49	04:31	05:01	17:16	17:46
26 MAR	04:27	04:56	17:24	17:54	04:24	04:53	17:21	17:51
30 MAR	04:19	04:49	17:29	17:59	04:16	04:45	17:26	17:56
03 APR	04:12	04:41	17:34	18:04	04:08	04:38	17:32	18:02
07 APR	04:04	04:34	17:39	18:10	04:01	04:31	17:37	18:07
11 APR	03:57	04:27	17:45	18:15	03:53	04:23	17:42	18:12
15 APR	03:49	04:20	17:50	18:20	03:45	04:16	17:47	18:18
19 APR	03:42	04:13	17:55	18:26	03:38	04:09	17:52	18:23
23 APR	03:35	04:06	18:00	18:31	03:31	04:03	17:57	18:29
27 APR	03:28	04:00	18:05	18:37	03:24	03:56	18:02	18:34
01 MAY	03:22	03:54	18:10	18:42	03:18	03:50	18:07	18:40
05 MAY	03:16	03:48	18:15	18:47	03:11	03:44	18:12	18:45
09 MAY	03:10	03:43	18:19	18:53	03:05	03:39	18:17	18:51
13 MAY	03:04	03:38	18:24	18:58	03:00	03:34	18:22	18:56
17 MAY	02:59	03:34	18:29	19:03	02:55	03:29	18:26	19:01
21 MAY	02:55	03:30	18:33	19:08	02:50	03:25	18:31	19:06
25 MAY	02:51	03:26	18:37	19:13	02:46	03:22	18:35	19:11
29 MAY	02:47	03:23	18:41	19:17	02:43	03:19	18:39	19:15
02 JUN	02:44	03:21	18:44	19:21	02:40	03:16	18:42	19:19
06 JUN	02:42	03:19	18:47	19:24	02:38	03:15	18:45	19:22
10 JUN	02:41	03:18	18:50	19:27	02:36	03:14	18:48	19:25
14 JUN	02:40	03:17	18:52	19:29	02:35	03:13	18:50	19:28
18 JUN	02:40	03:18	18:53	19:31	02:35	03:13	18:52	19:29
22 JUN	02:41	03:18	18:54	19:32	02:36	03:14	18:53	19:30
26 JUN	02:42	03:20	18:55	19:32	02:37	03:15	18:53	19:30
30 JUN	02:44	03:21	18:54	19:32	02:39	03:17	18:53	19:30
04 JUL	02:47	03:24	18:54	19:30	02:42	03:19	18:52	19:29
08 JUL	02:50	03:27	18:52	19:28	02:45	03:22	18:50	19:27
12 JUL	02:54	03:30	18:50	19:26	02:49	03:25	18:48	19:24
16 JUL	02:58	03:33	18:47	19:23	02:53	03:29	18:45	19:21
20 JUL	03:02	03:37	18:44	19:19	02:57	03:33	18:42	19:17

Date	PULA LDPL 44 53 37N 013 55 20E				RIJEKA LDRI 45 13 01N 014 43 13E			
	Twilight From	SR	SS	Twilight To	Twilight From	SR	SS	Twilight To
24 JUL	03:06	03:41	18:40	19:14	03:02	03:37	18:38	19:13
28 JUL	03:11	03:46	18:35	19:10	03:07	03:41	18:33	19:08
01 AUG	03:16	03:50	18:31	19:04	03:12	03:46	18:28	19:02
05 AUG	03:21	03:55	18:25	18:58	03:17	03:50	18:23	18:56
09 AUG	03:27	03:59	18:20	18:52	03:22	03:55	18:17	18:50
13 AUG	03:32	04:04	18:14	18:46	03:28	04:00	18:11	18:43
17 AUG	03:37	04:09	18:07	18:39	03:33	04:05	18:05	18:37
21 AUG	03:42	04:13	18:01	18:32	03:38	04:10	17:58	18:29
25 AUG	03:47	04:18	17:54	18:25	03:43	04:14	17:51	18:22
29 AUG	03:52	04:23	17:47	18:17	03:48	04:19	17:44	18:15
02 SEP	03:57	04:28	17:40	18:10	03:54	04:24	17:37	18:07
06 SEP	04:02	04:32	17:32	18:02	03:59	04:29	17:29	17:59
10 SEP	04:07	04:37	17:25	17:54	04:04	04:34	17:22	17:51
14 SEP	04:12	04:42	17:17	17:47	04:09	04:38	17:14	17:44
18 SEP	04:17	04:47	17:09	17:39	04:14	04:43	17:06	17:36
22 SEP	04:22	04:51	17:02	17:31	04:19	04:48	16:59	17:28
26 SEP	04:27	04:56	16:54	17:23	04:24	04:53	16:51	17:20
30 SEP	04:32	05:01	16:47	17:16	04:29	04:58	16:43	17:13
04 OCT	04:37	05:06	16:39	17:09	04:33	05:03	16:36	17:05
08 OCT	04:42	05:11	16:32	17:01	04:38	05:08	16:29	16:58
12 OCT	04:47	05:16	16:25	16:54	04:43	05:13	16:21	16:51
16 OCT	04:52	05:21	16:18	16:47	04:49	05:18	16:14	16:44
20 OCT	04:57	05:26	16:11	16:41	04:54	05:24	16:07	16:37
24 OCT	05:02	05:32	16:05	16:35	04:59	05:29	16:01	16:31
28 OCT	05:07	05:37	15:59	16:29	05:04	05:34	15:55	16:25
01 NOV	05:12	05:42	15:53	16:23	05:09	05:40	15:49	16:20
05 NOV	05:17	05:48	15:47	16:18	05:14	05:45	15:43	16:14
09 N0V	05:22	05:53	15:42	16:13	05:20	05:51	15:38	16:10
13 NOV	05:27	05:59	15:38	16:09	05:25	05:57	15:34	16:05
17 NOV	05:32	06:04	15:34	16:06	05:30	06:02	15:30	16:02
21 NOV	05:37	06:10	15:30	16:03	05:35	06:07	15:26	15:59
25 NOV	05:42	06:15	15:28	16:00	05:40	06:12	15:23	15:56
29 NOV	05:47	06:20	15:25	15:58	05:44	06:17	15:21	15:54
03 DEC	05:51	06:24	15:24	15:57	05:49	06:22	15:20	15:53
07 DEC	05:55	06:28	15:23	15:56	05:53	06:26	15:19	15:52
11 DEC	05:58	06:32	15:23	15:57	05:56	06:30	15:19	15:52
15 DEC	06:02	06:35	15:24	15:57	05:59	06:33	15:19	15:53

Date	PULA LDPL 44 53 37N 013 55 20E				RIJEKA LDRI 45 13 01N 014 43 13E			
	Twilight From	SR	SS	Twilight To	Twilight From	SR	SS	Twilight To
19 DEC	06:04	06:38	15:25	15:59	06:02	06:36	15:21	15:55
23 DEC	06:06	06:40	15:27	16:01	06:04	06:38	15:22	15:56
27 DEC	06:08	06:41	15:29	16:03	06:05	06:39	15:25	15:59
31 DEC	06:09	06:42	15:33	16:06	06:06	06:40	15:28	16:02

Date	SPLIT LDSP 43 32 20N 016 17 53E				ZADAR LDZD 44 06 30N 015 20 48E			
	Twilight From	SR	SS	Twilight To	Twilight From	SR	SS	Twilight To
01 JAN	05:55	06:28	15:29	16:01	06:01	06:34	15:31	16:04
05 JAN	05:56	06:28	15:33	16:05	06:01	06:34	15:34	16:07
09 JAN	05:55	06:27	15:37	16:09	06:00	06:33	15:39	16:11
13 JAN	05:54	06:26	15:41	16:13	05:59	06:31	15:43	16:16
17 JAN	05:52	06:24	15:46	16:18	05:57	06:29	15:48	16:20
21 JAN	05:50	06:21	15:51	16:22	05:55	06:27	15:53	16:25
25 JAN	05:47	06:18	15:56	16:27	05:52	06:24	15:59	16:30
29 JAN	05:44	06:14	16:02	16:32	05:49	06:20	16:04	16:35
02 FEB	05:40	06:10	16:07	16:38	05:45	06:15	16:10	16:40
06 FEB	05:36	06:06	16:13	16:43	05:40	06:11	16:15	16:46
10 FEB	05:31	06:00	16:18	16:48	05:35	06:05	16:21	16:51
14 FEB	05:26	05:55	16:23	16:53	05:30	06:00	16:26	16:56
18 FEB	05:20	05:49	16:29	16:58	05:24	05:54	16:32	17:01
22 FEB	05:14	05:43	16:34	17:03	05:18	05:48	16:37	17:07
26 FEB	05:08	05:37	16:39	17:08	05:12	05:41	16:43	17:12
02 MAR	05:01	05:30	16:45	17:14	05:05	05:34	16:48	17:17
06 MAR	04:54	05:23	16:50	17:18	04:58	05:27	16:53	17:22
10 MAR	04:47	05:16	16:55	17:23	04:51	05:20	16:58	17:27
14 MAR	04:40	05:09	17:00	17:28	04:44	05:13	17:03	17:32
18 MAR	04:33	05:02	17:05	17:33	04:37	05:06	17:08	17:37
22 MAR	04:26	04:55	17:09	17:38	04:29	04:58	17:13	17:42
26 MAR	04:19	04:47	17:14	17:43	04:22	04:51	17:18	17:47
30 MAR	04:11	04:40	17:19	17:48	04:15	04:44	17:23	17:52
03 APR	04:04	04:33	17:24	17:53	04:07	04:36	17:28	17:57
07 APR	03:57	04:26	17:29	17:58	04:00	04:29	17:33	18:03
11 APR	03:50	04:19	17:33	18:03	03:52	04:22	17:38	18:08
15 APR	03:43	04:12	17:38	18:08	03:45	04:15	17:43	18:13
19 APR	03:36	04:06	17:43	18:13	03:38	04:09	17:48	18:18

Date	SPLIT LDSP 43 32 20N 016 17 53E				ZADAR LDZD 44 06 30N 015 20 48E			
	Twilight From	SR	SS	Twilight To	Twilight From	SR	SS	Twilight To
23 APR	03:29	03:59	17:48	18:18	03:31	04:02	17:52	18:23
27 APR	03:22	03:53	17:52	18:23	03:25	03:56	17:57	18:29
01 MAY	03:16	03:48	17:57	18:28	03:18	03:50	18:02	18:34
05 MAY	03:10	03:42	18:02	18:34	03:12	03:45	18:07	18:39
09 MAY	03:05	03:37	18:06	18:39	03:07	03:39	18:11	18:44
13 MAY	03:00	03:32	18:11	18:44	03:01	03:35	18:16	18:49
17 MAY	02:55	03:28	18:15	18:48	02:57	03:30	18:20	18:54
21 MAY	02:51	03:24	18:19	18:53	02:52	03:26	18:25	18:59
25 MAY	02:47	03:21	18:23	18:57	02:48	03:23	18:29	19:03
29 MAY	02:44	03:18	18:27	19:01	02:45	03:20	18:32	19:08
02 JUN	02:41	03:16	18:30	19:05	02:42	03:18	18:36	19:11
06 JUN	02:39	03:15	18:33	19:08	02:40	03:16	18:39	19:15
10 JUN	02:38	03:14	18:35	19:11	02:39	03:15	18:41	19:17
14 JUN	02:37	03:13	18:37	19:13	02:38	03:15	18:43	19:20
18 JUN	02:37	03:13	18:39	19:15	02:38	03:15	18:45	19:21
22 JUN	02:38	03:14	18:40	19:16	02:39	03:16	18:46	19:22
26 JUN	02:39	03:15	18:40	19:16	02:40	03:17	18:46	19:22
30 JUN	02:41	03:17	18:40	19:16	02:42	03:19	18:46	19:22
04 JUL	02:44	03:19	18:39	19:14	02:45	03:21	18:45	19:21
08 JUL	02:47	03:22	18:38	19:13	02:48	03:24	18:43	19:19
12 JUL	02:50	03:25	18:36	19:10	02:51	03:27	18:41	19:17
16 JUL	02:54	03:28	18:33	19:07	02:55	03:30	18:39	19:14
20 JUL	02:58	03:32	18:30	19:04	02:59	03:34	18:35	19:10
24 JUL	03:02	03:36	18:26	19:00	03:04	03:38	18:32	19:06
28 JUL	03:07	03:40	18:22	18:55	03:09	03:42	18:27	19:01
01 AUG	03:12	03:44	18:17	18:50	03:13	03:46	18:23	18:56
05 AUG	03:16	03:49	18:12	18:44	03:18	03:51	18:18	18:50
09 AUG	03:21	03:53	18:07	18:39	03:23	03:55	18:12	18:44
13 AUG	03:26	03:57	18:01	18:32	03:28	04:00	18:06	18:38
17 AUG	03:31	04:02	17:55	18:26	03:33	04:05	18:00	18:31
21 AUG	03:36	04:06	17:49	18:19	03:38	04:09	17:54	18:24
25 AUG	03:41	04:11	17:42	18:12	03:43	04:14	17:47	18:17
29 AUG	03:45	04:15	17:35	18:05	03:48	04:18	17:40	18:10
02 SEP	03:50	04:20	17:28	17:58	03:53	04:23	17:33	18:03
06 SEP	03:55	04:24	17:21	17:51	03:58	04:27	17:26	17:55
10 SEP	04:00	04:29	17:14	17:43	04:03	04:32	17:18	17:48
14 SEP	04:04	04:33	17:07	17:36	04:07	04:37	17:11	17:40

Date	SPLIT LDSP 43 32 20N 016 17 53E				ZADAR LDZD 44 06 30N 015 20 48E			
	Twilight From	SR	SS	Twilight To	Twilight From	SR	SS	Twilight To
18 SEP	04:09	04:37	17:00	17:28	04:12	04:41	17:04	17:32
22 SEP	04:13	04:42	16:52	17:21	04:17	04:46	16:56	17:25
26 SEP	04:18	04:46	16:45	17:13	04:22	04:50	16:49	17:17
30 SEP	04:23	04:51	16:38	17:06	04:26	04:55	16:41	17:10
04 OCT	04:27	04:56	16:31	16:59	04:31	05:00	16:34	17:03
08 OCT	04:32	05:00	16:24	16:52	04:36	05:05	16:27	16:56
12 OCT	04:36	05:05	16:17	16:45	04:40	05:10	16:20	16:49
16 OCT	04:41	05:10	16:10	16:39	04:45	05:15	16:13	16:42
20 OCT	04:46	05:15	16:04	16:33	04:50	05:20	16:07	16:36
24 OCT	04:51	05:20	15:57	16:27	04:55	05:25	16:00	16:30
28 OCT	04:56	05:25	15:51	16:21	05:00	05:30	15:54	16:24
01 NOV	05:00	05:30	15:46	16:16	05:05	05:35	15:49	16:19
05 NOV	05:05	05:35	15:41	16:11	05:10	05:41	15:43	16:14
09 N0V	05:10	05:41	15:36	16:06	05:15	05:46	15:39	16:09
13 NOV	05:15	05:46	15:32	16:02	05:20	05:51	15:34	16:05
17 NOV	05:20	05:51	15:28	15:59	05:25	05:56	15:30	16:02
21 NOV	05:25	05:56	15:25	15:56	05:30	06:02	15:27	15:59
25 NOV	05:29	06:01	15:22	15:54	05:34	06:07	15:24	15:56
29 NOV	05:34	06:06	15:20	15:52	05:39	06:11	15:22	15:55
03 DEC	05:38	06:10	15:19	15:51	05:43	06:16	15:21	15:53
07 DEC	05:42	06:14	15:18	15:51	05:47	06:20	15:20	15:53
11 DEC	05:45	06:18	15:18	15:51	05:51	06:23	15:20	15:53
15 DEC	05:48	06:21	15:19	15:52	05:54	06:27	15:21	15:54
19 DEC	05:51	06:24	15:20	15:53	05:56	06:29	15:22	15:55
23 DEC	05:53	06:26	15:22	15:55	05:58	06:31	15:24	15:57
27 DEC	05:54	06:27	15:25	15:58	06:00	06:33	15:27	16:00
31 DEC	05:55	06:28	15:28	16:01	06:01	06:34	15:30	16:03

Date	ZAGREB LDZA 45 44 36N 016 04 08E			
	Twilight From	SR	SS	Twilight To
01 JAN	06:03	06:37	15:22	15:56
05 JAN	06:03	06:37	15:26	16:00
09 JAN	06:02	06:36	15:30	16:04
13 JAN	06:01	06:34	15:35	16:08
17 JAN	05:59	06:32	15:40	16:13

Date	ZAGREB LDZA 45 44 36N 016 04 08E			
	Twilight From	SR	SS	Twilight To
21 JAN	05:56	06:29	15:46	16:18
25 JAN	05:53	06:25	15:51	16:24
29 JAN	05:49	06:21	15:57	16:29
02 FEB	05:45	06:16	16:03	16:35
06 FEB	05:40	06:11	16:09	16:40
10 FEB	05:35	06:06	16:15	16:46
14 FEB	05:29	06:00	16:21	16:51
18 FEB	05:23	05:54	16:26	16:57
22 FEB	05:17	05:47	16:32	17:02
26 FEB	05:10	05:40	16:38	17:08
02 MAR	05:03	05:33	16:44	17:14
06 MAR	04:56	05:25	16:49	17:19
10 MAR	04:48	05:18	16:55	17:24
14 MAR	04:41	05:10	17:00	17:30
18 MAR	04:33	05:03	17:06	17:35
22 MAR	04:25	04:55	17:11	17:41
26 MAR	04:18	04:47	17:16	17:46
30 MAR	04:10	04:40	17:21	17:51
03 APR	04:02	04:32	17:27	17:57
07 APR	03:54	04:25	17:32	18:02
11 APR	03:47	04:17	17:37	18:08
15 APR	03:39	04:10	17:42	18:13
19 APR	03:32	04:03	17:47	18:19
23 APR	03:24	03:56	17:53	18:25
27 APR	03:17	03:50	17:58	18:30
01 MAY	03:11	03:43	18:03	18:36
05 MAY	03:04	03:38	18:08	18:42
09 MAY	02:58	03:32	18:13	18:47
13 MAY	02:52	03:27	18:18	18:53
17 MAY	02:47	03:22	18:23	18:58
21 MAY	02:42	03:18	18:27	19:03
25 MAY	02:38	03:15	18:31	19:08
29 MAY	02:35	03:11	18:35	19:12
02 JUN	02:32	03:09	18:39	19:16
06 JUN	02:30	03:07	18:42	19:20
10 JUN	02:28	03:06	18:45	19:23
14 JUN	02:27	03:05	18:47	19:25

Date	ZAGREB LDZA 45 44 36N 016 04 08E			
	Twilight From	SR	SS	Twilight To
18 JUN	02:27	03:06	18:48	19:27
22 JUN	02:28	03:06	18:49	19:28
26 JUN	02:29	03:08	18:50	19:28
30 JUN	02:31	03:09	18:49	19:27
04 JUL	02:34	03:12	18:48	19:26
08 JUL	02:37	03:15	18:47	19:24
12 JUL	02:41	03:18	18:44	19:21
16 JUL	02:45	03:22	18:41	19:18
20 JUL	02:50	03:26	18:38	19:14
24 JUL	02:54	03:30	18:34	19:09
28 JUL	02:59	03:34	18:30	19:04
01 AUG	03:05	03:39	18:24	18:59
05 AUG	03:10	03:44	18:19	18:53
09 AUG	03:15	03:48	18:13	18:46
13 AUG	03:21	03:53	18:07	18:40
17 AUG	03:26	03:58	18:00	18:33
21 AUG	03:31	04:03	17:54	18:25
25 AUG	03:37	04:08	17:47	18:18
29 AUG	03:42	04:13	17:39	18:10
02 SEP	03:47	04:18	17:32	18:03
06 SEP	03:52	04:23	17:24	17:55
10 SEP	03:58	04:28	17:17	17:47
14 SEP	04:03	04:33	17:09	17:39
18 SEP	04:08	04:38	17:01	17:31
22 SEP	04:13	04:43	16:53	17:23
26 SEP	04:18	04:48	16:46	17:15
30 SEP	04:23	04:53	16:38	17:07
04 OCT	04:28	04:58	16:30	17:00
08 OCT	04:33	05:03	16:23	16:52
12 OCT	04:38	05:08	16:15	16:45
16 OCT	04:44	05:14	16:08	16:38
20 OCT	04:49	05:19	16:01	16:32
24 OCT	04:54	05:24	15:55	16:25
28 OCT	04:59	05:30	15:48	16:19
01 NOV	05:05	05:36	15:42	16:13
05 NOV	05:10	05:41	15:37	16:08
09 N0V	05:15	05:47	15:32	16:03

Date	ZAGREB LDZA 45 44 36N 016 04 08E			
	Twilight From	SR	SS	Twilight To
13 NOV	05:20	05:53	15:27	15:59
17 NOV	05:26	05:58	15:23	15:55
21 NOV	05:31	06:04	15:19	15:52
25 NOV	05:36	06:09	15:16	15:49
29 NOV	05:40	06:14	15:14	15:47
03 DEC	05:45	06:18	15:12	15:46
07 DEC	05:49	06:23	15:11	15:45
11 DEC	05:52	06:26	15:11	15:46
15 DEC	05:55	06:30	15:12	15:46
19 DEC	05:58	06:32	15:13	15:48
23 DEC	06:00	06:35	15:15	15:50
27 DEC	06:02	06:36	15:18	15:52
31 DEC	06:02	06:37	15:21	15:55

ENR 1.14 AIR TRAFFIC INCIDENTS

ENR 1.14.1 DEFINITION OF AIR TRAFFIC INCIDENTS

ENR 1.14.1.1 **"Incident"** means any occurrence, other than an accident, that is associated with the operation of an aircraft and affects, or could affect, the safety of operation (EU Regulation 996/2010, Article 2(7)).

"Serious Incident" means an incident involving circumstances indicating that there was a high probability of an accident and is associated with the operation of an aircraft, which in the case of a manned aircraft, takes place between the time any person boards the aircraft with the intention of flight until such time as all such persons have disembarked, or in the case of an unmanned aircraft, takes place between the time the aircraft is ready to move with the purpose of flight until such time it comes to rest at the end of the flight and the primary propulsion system is shut down (EU Regulation 996/2010, Article 2 (16)).

"Accident" means an occurrence that is associated with the operation of an aircraft and takes place between the time any person boards the aircraft with the intention of flight and such time as all such persons have disembarked and the engine or any propellers or rotors come to rest, being an occurrence (EU Regulation 996/ 2010, Article 2 (1,5 i 17)) in which:

a. a person is fatally or seriously injured as a result of:
- being in the aircraft; or
- direct contact with any part of the aircraft, including any part that has become detached from the aircraft; or
- direct exposure to jet blast,

except when the injuries are self-inflicted or inflicted by other persons, or when the injuries are to stowaways hiding outside the areas normally available to passengers and crew; or

b. The aircraft sustains damage or structural failure that adversely affects the structural strength, performance, or flight characteristics of the aircraft; and would normally require major repair or replacement of the affected component except engine failure or damage that is limited to the engine, its cowlings, or accessories, or damage limited to propellers, wing tips, rotors, antennas, tyres, brakes, fairings, small dents, or puncture holes in the aircraft skin; or

c. the aircraft is missing or is completely inaccessible

Any person involved who knows that an accident or serious incident has occurred is obliged without delay to immediately inform the authority responsible for safety investigations, in accordance with EU Regulation 996/ 2010, Article 9:

Post: Air, Maritime and Railway Traffic Accident Investigation Agency
Lonjička 2, 10000 Zagreb

Phone: +385 1 8886 830

Fax: +385 1 8886 831

URL: www.ain.hr

"Occurence" means any safety-related event which endangers or which, if not corrected or addressed, could endanger an aircraft, its occupants or any other person and includes in particular an accident or serious incident (EU Regulation 376/2014, Article 2 (7)).

Occurences related to safety should be reported in accordance with EU Regulation 376/2014, and in accordance with the Air Traffic Act (Official Gazette 69/09, 84/11, 54/13, 127/13, 92/14) Article 108, to the Croatian Civil Aviation Agency and the Air, Maritime and Railway Accident Investigation Agency, using the prescribed forms available on the web portals of the aforementioned agencies or using the ECCAIRS web platform (https://aviationreporting.eu/en/homepage).

Post: Air, Maritime and Railway Traffic Accident Investigation Agency
Lonjička 2, 10000 Zagreb

Phone: +385 1 8886 830

Fax: +385 1 8886 831

URL: www.ain.hr

Post: Croatian Civil Aviation Agency
Ul. Grada Vukovara 284, 10000 Zagreb

Phone: +385 1 2369 300

Fax: +385 1 2369 301

URL: www.ccaa.hr

ENR 1.14.1.1.1 Definitions for aircraft proximity and AIRPROX.

Aircraft proximity - A situation in which, in the opinion of the pilot in command or the air traffic controller, the distance between aircraft, as well as their relative positions and speed, has been such that the safety of the aircraft involved may have been compromised. Aircraft proximity is classified as follows:

Risk of collision - The risk classification of aircraft proximity in which serious risk of collision has existed.

Safety not assured - The risk classification of aircraft proximity in which the safety of the aircraft may have been compromised.

No risk of collision - The risk classification of aircraft proximity in which no risk of collision has existed.

Risk not determined - The risk classification of aircraft proximity in which insufficient information was available to determine the risk involved, or inconclusive or conflicting evidence precluded such determination.

AIRPROX - The code word used in an air traffic incident report to designate aircraft proximity.

ENR 1.14.1.1.2 AIR traffic incidents are designated and identified in reports as follows

Type	*Designation*
Air traffic incident	Incident
as a) above	AIRPROX (aircraft proximity)
as b) 1) and 2) above	Procedure
as b) 3) above	Facility

ENR 1.14.2 USE OF THE AIRCRAFT PROXIMITY, IRREGULAR PROCEDURE EMPLOYMENT OR WORK OF RADIONAVIGATION OR OTHER FACILITY REPORT FORM

The Aircraft proximity, irregular procedure employment or work of radionavigation or other facility Report Form example is given within this subsection. It is intended for use:

a. by a pilot for filing a report on an air traffic incident after arrival or for confirming a report made initially by radio during flight.
Note: The form, if available onboard, may also be of use in providing a pattern for making the initial report in flight.

b. by an ATS unit for recording an air traffic incident report received by radio, telephone or teleprinter.
Note: The form may be used as the format for the text of a message to be transmitted over the AFS network.

Izvješće o opasnom približavanju zrakoplova, nepropisnoj primjeni postupka ili radu radionavigacijskog ili drugog sredstva

Aircraft proximity, irregular procedure employment or work of radionavigation or other facility Report Form

1.➤ Približavanje zrakoplova / Airprox ☐ Postupak / Procedure ☐ Zemaljsko sredstvo / Facility ☐

2 ➤ Pozivni znak zrakoplova / nadležna KZP
Radio callsign of reporting aircraft/reporting ATC unit

datum i vrijeme *date and time* _____UTC Pilot:_____ reg. oznaka zrakoplova *aircraft registration* _____

vrijeme u min /sek između prvog kontakta i najmanjeg odstojanja *time in min/sec elapsed between first sighting and closed proximity*_____ akcija izbjegavanja: *avoiding action* DA ☐ NE ☐ *YES NO* ako da, na temelju TCAS *if yes, based on TCAS* DA ☐ NE ☐ *YES NO*

tip zrakoplova *type of aircraft* _____ aerodrom odlaska *aerodome of departure*_____ aerodrom odredišta *aerodrome of destination* _____

u komunikaciji s: *in communication with* _____ frekvencija *frequency* _____ radarska identifikacija *radar identification* DA ☐ NE ☐ *YES NO* informacija o prometu dobivena traffic information received DA ☐ *YES* NE ☐ *NO*

SSR kod/ *SSR code*_____

3 ➤ Pozicija
Position_____ smjer leta ili ruta *heading or route* _____ TAS _____kt

4 ➤ Visina leta
FL, altitude or height 1) za vrijeme događaja *at time of occurence*_____m/ft/FL horizontalni let/ *horizontal flight* ☐ penjanje *climb* ☐ snižavanje *descend* ☐

2) kod prvog kontakta *on first sighting* _____m/ft/FL horizontalni let *horizontal flight* ☐ penjanje *climb* ☐ snižavanje *descend* ☐ postavljanje visinomjera *altimeter setting* _____ hpa inch

5 ➤ Meteorološki uvjeti
Flight weather conditions 1) općenito *in general* IMC☐ VMC☐

2) pojedinosti *in particular* iznad oblaka *on top* ☐ ispod oblaka *below clouds* ☐ u oblacima *in clouds* ☐ između slojeva *btn. layers* ☐ djelomično u oblacima *in and out of clouds* ☐ vedro *sky clear* ☐

3) odstojanje od oblaka *distance from clouds* vertikalno *vertical*_____m/ft horizontalno *horizontal*_____m/ft/nm naoblaka *sky coverage*_____

4) vidljivost u letu *flight visibility*:_____km/nm u sunce *into sun* ☐ od sunca *out of sun* ☐ u sumaglici *in haze* ☐ primjedba *remarks*_____

6 ➤ Opis drugog zrakoplova
Description of other aircraft 1) registracijska oznaka / pozivni znak *aircraft registration/radio callsign* 2)tip zrakoplova *type of aircraft*

3) oznaka, boje i/ili svjetla *markings, colours and / or lights* maskirni *camouflage* DA ☐ NE ☐ *YES NO* 4) oblik zrakoplova *shape of aircraft*

5) niskokrilac ☐ *low* visokokrilac ☐ *high* srednjokrilac ☐ *shoulder wing*

6) broj i smještaj motora *no. and position of engines*

7) procijenjeni smjer leta/*estimated heading*

lijevi zaokret/*left* ☐ desni zaokret/*right* ☐

horizontalni let *horizontal flight* ☐ penjanje *climb* ☐ snižavanje *descend* ☐

8) dopunska informacija *other relevant information*

SSR kod *SSR code*_____

7 ➤ Opis: Description:	(u slučaju približavanja zrakoplova uključujući relativnu putanju leta, vertikalno i horizontalno odstojanje od drugog zrakoplova u prvom kontaktu i u trenutku događaja, obavljene i/ili uočene mjere izbjegavanja) *(in case of airprox including relative flight path, vertical and horizontal distance to prior aircraft at first sighting and at time of incident, executed and / or observed involving action.)*

8 ➤ Informacije jedinice KZP
Information from ATC unit

1) informacija o prometu izdana *traffic information issued* DA ☐ YES NE ☐ NO — Navedi razlog, ako nije izdana. *State reason, if none issued.*

2) sadržaj izdane informacije u prometu *information issued.*
smjer udaljenost smjer leta
direction distance heading

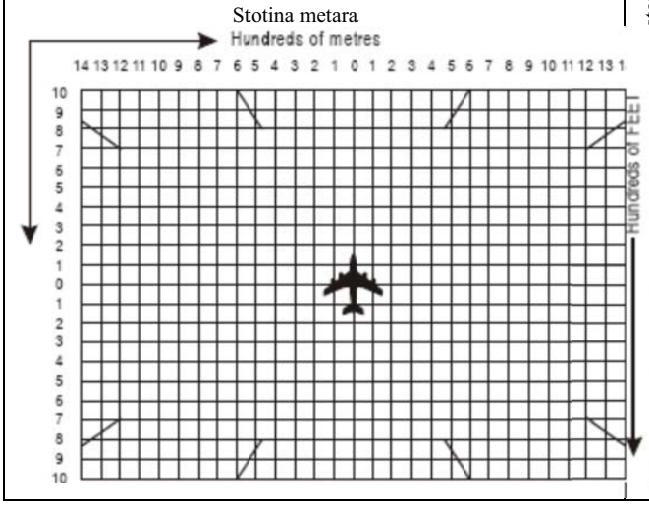
3) najmanje odstojanje između ciljeva
*closed proximity observed between targets*_____

4) Dopunsko izvješće slijedi *Supplementary report to follow:* DA ☐ *YES* NE ☐ *NO*

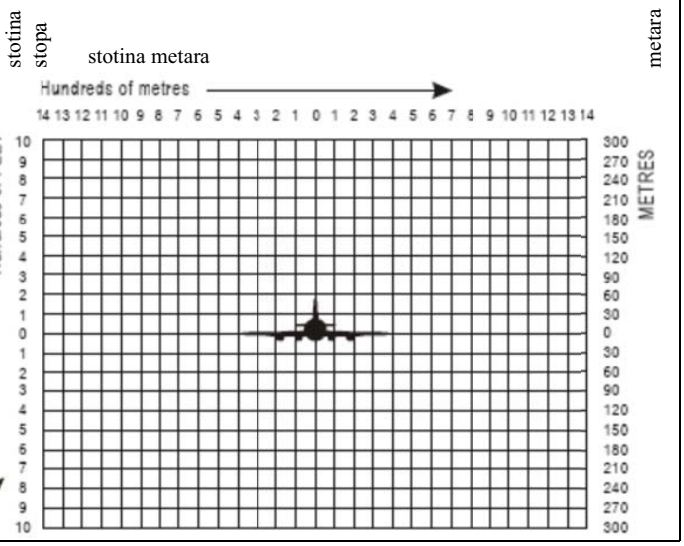
Proslijeđeno *Forwarded to*

Primio *Received by*

Tlocrt *Plan view*



Nacrt *Profile view*



Potpis osobe koja podnosi izvješće
Signature of reporting person

_____ Datum / *Date* _____

Prezime/*Surname*_____ Ime / *Given name* _____

Adresa /
*Address*_____

ENR 1.14.3 REPORTING PROCEDURES (INCLUDING IN-FLIGHT PROCEDURES)

ENR 1.14.3.1 The following are the procedures to be followed by a pilot who is or has been involved in an incident:

a. during flight, use the appropriate air/ground frequency for reporting an incident of major significance, particularly if it involves other aircraft, so as to permit the facts to be ascertained immediately;

b. as promptly as possible after landing, submit a completed Aircraft proximity, irregular procedure employment or work of radionavigation or other facility Report Form:

1. for confirming a report of an incident made initially as in a) above, or for making the initial report on such an incident if it had not been possible to report it by radio;

2. for reporting an incident which did not require immediate notification at the time of occurrence.

ENR 1.14.3.2 An initial report made by radio should contain the following information:

a. aircraft identification;

b. type of incident, e.g. aircraft proximity;

c. the incident; 1.a) and b); 2. a), b), c), d), n); 3. a),b), c), i); 4.a), b);

d. Miscellaneous: 1. e).

ENR 1.14.3.3 The confirmatory report on an incident of major significance initially reported by radio or the initial report on any other incident should be submitted to Air, Maritime and Railway Traffic Accidents Investigation Agency, to Croatian Civil Aviation Agency and to the Croatia Control Ltd. Central ARO Split. The pilot should complete the Aircraft proximity, irregular procedure employment or work of radionavigation or other facility Report Form, supplementing the details of the initial reports as necessary.

Note: Where there is no Croatia Control Ltd. ARO Office, the report may be submitted to another Croatia Control Ltd. ATS unit.

ENR 1.14.4 PURPOSE OF REPORTING AND HANDLING OF THE FORM

ENR 1.14.4.1 The purpose of the reporting of aircraft proximity incidents and their investigation is to promote the safety of aircraft. The degree of risk involved in an aircraft proximity incident should be determined in the incident investigation and classified as “risk of collision”, “safety not assured“, “no risk of collision” or “risk not determined”.

ENR 1.14.4.2 The purpose of the form is to provide investigatory authorities with as complete information on an air traffic incident as possible and to enable them to report back, with the least possible delay to the pilot or operator concerned, the result of the Investigation of the incident and, if appropriate, the remedial action taken.

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LDDU AD 2.19 RADIO NAVIGATION AND LANDING AIDS

Type of aid CAT of ILS/MLS (For VOR/ILS/MLS, give 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)	DBK	115.4 MHZ *CH101X	H24	423313.84N 0181638.79E	550 FT	MRA at 40NM: QDR 179°- 300° 3000FT Coverage 80 NM - unusable between QDR 057°-073°
VOR/DME (4°E/2019)	SPL	115.7 MHZ *CH104X	H24	432947.69N 0161817.00E	734 FT	Range 100 NM
DME 11	IDU	CH38X	H24	423408.19N 0181507.96E	571 FT	Collocated with GP11, Orbit flight DME 25 NM MRA: 140° - 310° 4000 FT 310° - 140° 6000 FT
NDB	KLP	318 KHZ	H24	424009.42N 0180115.07E		297°MAG/11.73 NM from THR 11. Range 50 NM
L	CV	397 KHZ	H24	423506.68N 0181245.51E		1.9 NM from THR 11 Range 15 NM
L	GR	414 KHZ	H24	423226.26N 0181914.97E		1.9 NM from THR 29 Range 15 NM- unusable between QDR 044°-089° clockwise.
LOC 11	IDU	110.1 MHZ	H24	423316.63N 0181706.77E		ILS CAT I Not usable to 17 NM outside 22° left (North) of centre line.
GP 11		334.4 MHZ	H24	423408.19N 0181507.94E		3.0°, RDH 50 FT
MM11	Dots-Dashes	75 MHZ	H24	423427.81N 0181408.83E		

LDDU AD 2.20 LOCAL AERODROME REGULATIONS

During Code letter F aircraft ground movement, outer engines shall be used on idle power only.

TWR directions and marshaller guidance shall be followed for entering / exiting from any of aircraft positions, ground taxiing or air taxiing of helicopters.

ATC DEP clearance is available on Dubrovnik TWR FREQ 15 MIN before start up.

Pilots shall state their parking position number on initial contact with ATC.

Aircraft shall request push-back and start-up clearance after:

- push-back vehicle has been attached,
- communication with the ground crew has been established,
- aircraft is ready to commence push-back.

Push-back clearance issued by ATC shall contain runway in use.
Runway in use shall be relayed to the ground crew by the flight deck.

WARNING: Gusts, wind shear and turbulence can be expected on final approaches and on RWY 11/29 in conditions of strong north-easterly winds.

Preferential configuration/RWY in use is RWY11.

LDDU AD 2.21 NOISE ABATEMENT PROCEDURES

NOISE ABATEMENT DEPARTURE PROCEDURE RWY 29

Aircraft operators shall follow aircraft manufacturer's noise abatement recommended procedures up to FL 100, or the procedure below:

- Take-off to 1350 FT QNH
- Climb at V_2 + 10 KT
- On reaching altitude of 1350 FT QNH, adjust and maintain engine power/thrust in accordance with the noise abatement power/thrust schedule provided in the aircraft operating manual
- Maintain climb speed of V_2 + 10-20 KT with flaps and slats in the take off configuration
- At 3500 FT QNH maintain positive rate of climb, accelerate and retract flaps/slats on schedule

AERODROME CHART - ICAO

ARP
44°33' 57.26"N
014°23' 35.48"E

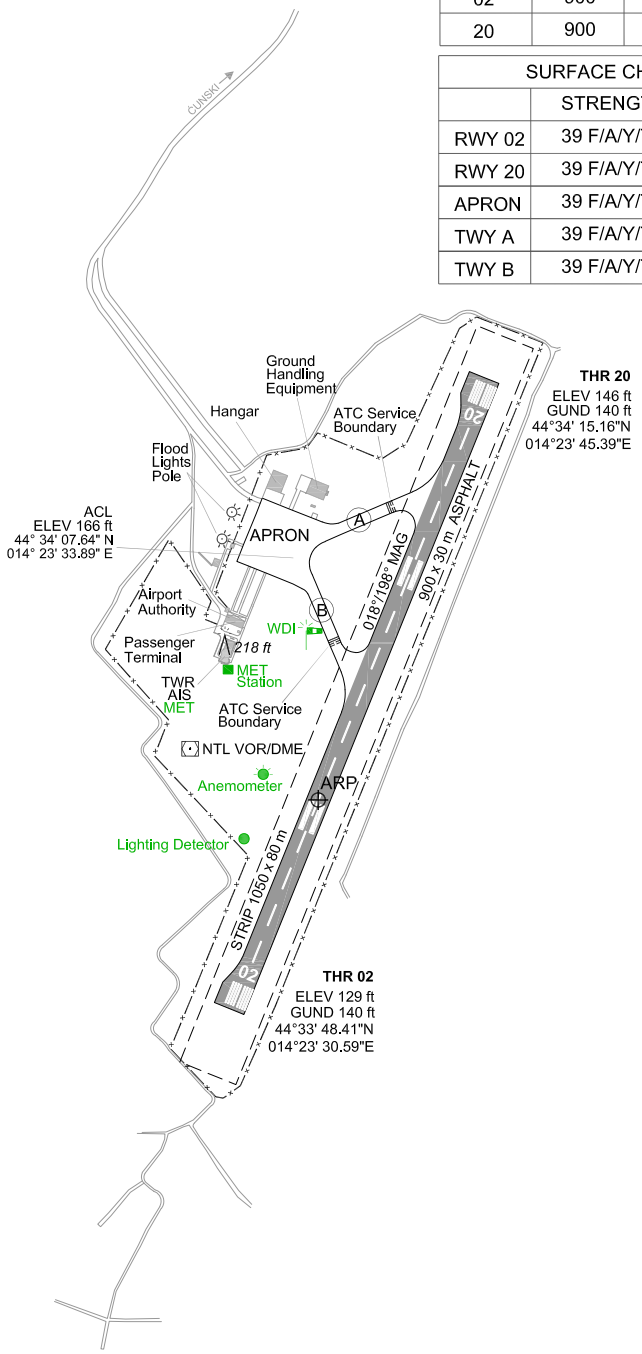
AD ELEV 154 ft
GUND 140 ft

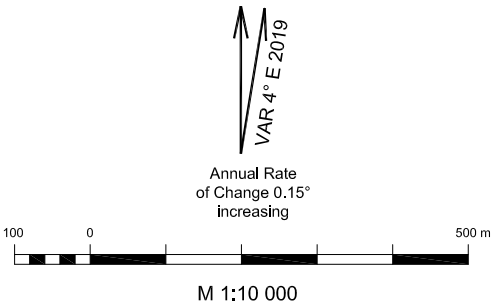
LOŠINJ TOWER
120.300

LOŠINJ / Lošinj I.
CROATIA

DECLARED DISTANCES				
RWY	TORA	TODA	ASDA	LDA
02	900	900	900	900
20	900	900	900	900

SURFACE CHARACTERISTICS			
	STRENGTH	SURFACE	WIDTH
RWY 02	39 F/A/Y/T	ASPH	
RWY 20	39 F/A/Y/T	ASPH	
APRON	39 F/A/Y/T	ASPH	
TWY A	39 F/A/Y/T	ASPH	15 m
TWY B	39 F/A/Y/T	ASPH	15 m





M 1:10 000

BEARINGS ARE MAGNETIC
ELEVATIONS IN FT
DISTANCES IN M

CHANGE: NTL VOR/DME; ADDED: Lightning Detector.

OVA STRANICA JE NAMJERNO OSTAVLJENA PRAZNA
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LDRI 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	Nil

LDRI AD 2.17 ATS AIRSPACE

1	Designation and lateral limits	CTR Rijeka 452815N 0142611E 450454N 0145038E 445714N 0143623E 452039N 0141058E to point of origin.
2	Vertical limits	4000 FT ALT / GND
3	Airspace classification	D
4	ATS unit call sign Language(s)	RIJEKA TORANJ / RIJEKA TOWER Croatian, English
5	Transition altitude	10000 FT MSL
6	Remarks	For airspace description outside LDRI ATS operational hours see AIP ENR 2.1 (Uncontrolled Airspace and Pula TMA). Due to possible unplanned extension of LDRI ATS operational hours all aircraft flying in uncontrolled airspace should maintain a continuous listening watch on Rijeka TWR frequency. REF AD 2.22

LDRI 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	Nil
	PULA RADAR	127.675 MHZ	H24	Nil
	PULA RADAR	121.500 MHZ	H24	EMERG FREQ
TWR	RIJEKA TORANJ / RIJEKA TOWER	119.000 MHZ	Upon NOTAM or AIP SUP	Primary FREQ
		125.425 MHZ	Upon NOTAM or AIP SUP	ALTN FREQ
		121.500 MHZ	Upon NOTAM or AIP SUP	EMERG FREQ

LDRI AD 2.19 RADIO NAVIGATION AND LANDING AIDS

Type of aid CAT of ILS/MLS (For VOR/ILS/MLS, give 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)	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).
VOR/DME (4°E/2019)	RJK	117.8 MHZ *CH125X	H24	451326.85N 0143401.06E	362 FT	Coverage 60 NM
NDB	BRZ	400 KHZ	H24	452525.14N 0142043.44E		318°MAG/14.99 NM from THR 14. Range 50 NM
NDB	CRE	433 KHZ	H24	445410.37N 0142459.57E		Range 50 NM
L	KO	438 KHZ	H24	452004.69N 0142648.35E		319°MAG/8.15 NM from THR 14. Range 25 NM
L	RI	289 KHZ	H24	450815.04N 0143910.56E		140°MAG/5.22 NM from THR 32. Range 25 NM
LOC 14	IKR	108.5 MHZ	H24	451221.87N 0143454.46E		ILS CAT I
GP 14		329.9 MHZ	H24	451324.15N 0143346.29E		3°, RDH 16 M GP 14 coverage (right side) reduced to 6° due to low clearance.
OM14	Dashes-Dashes	75 MHZ	H24	452004.75N 0142648.55E		15.09 KM from THR 14
MM14	Dots-Dashes	75 MHZ	H24	451403.80N 0143308.47E		1.24 KM from THR 14

LDRI AD 2.20 LOCAL AERODROME REGULATIONS

Engines start up is not allowed without TWR approval, including VFR flights.

WARNING: Gusts, wind shear and turbulence can be expected on final approaches and on RWY 14/32 in conditions of strong north-easterly winds.

LDRI AD 2.20.1 TAXI PROCEDURES

For aircraft with higher letter code than airport letter code minimum thrust settings are to be used when taxiing on apron, away from parking stand and on TWY A and B.

LDRI AD 2.20.2 FOUR-ENGINE AIRCRAFT OPERATION

Outer engines shall be used on idle power only, during taxiing.

LDRI AD 2.21 NOISE ABATEMENT PROCEDURES

NIL

LDRI AD 2.22 FLIGHT PROCEDURES

All instrument approach procedures and all standard instrument departures (RWY14 and RWY32) are suspended outside ATS hours of service.

SID RWY 14

CALCULATION of SIDs is based on all-engines operative minimum net climb gradient of 3.3 % (201 FT/NM).
Where a greater climb gradient for specific SID is necessary this is indicated in the description of the route.
These SIDs require a minimum net climb gradient of 5.4% (328 FT/NM).
Assume standard net climb gradient after reaching 2000 FT.

SID RWY 14				
Designator	Route	After take off		Remarks
		Climb initially	Contact	
ALIVO3C	ALIVO THREE CHARLIE DEPARTURE Climb straight ahead. At 3300 FT, but not before RI L, turn RIGHT climbing to RJK VOR DME. At RJK VOR DME, proceed on R-018 RJK, climbing to ALIVO.	8000 FT	After passing 4000 FT, contact Pula Radar on 127.675 MHZ	Cross RJK VOR DME at or above 7000 FT. Cross ALIVO at or above 8000 FT.
RUGOG 1C	RUGOG ONE CHARLIE DEPARTURE Climb straight ahead. AT 3300 FT, but not before RI L, turn RIGHT climbing to RJK VOR DME. At RJK VOR DME, turn RIGHT on R-080 RJK climbing to RUGOG.	8000 FT	After passing 4000 FT, contact Pula Radar on 127.675 MHZ	Cross RJK VOR DME at or above 7000 FT. Cross 20.0 DME RJK at or above FL120.

SID RWY 14				
Designator	Route	After take off		Remarks
		Climb initially	Contact	
CRE4H	CRES FOUR HOTEL DEPARTURE Climb straight ahead. At RI L turn RIGHT climbing on track 241°, intercept QDM 212° CRE to CRE NDB.	8000 FT	After passing 4000 FT, contact Pula Radar on 127.675 MHZ	
PUL3R	PULA THREE ROMEO DEPARTURE Climb straight ahead. At RI L turn RIGHT climbing on track 301°, at R-207 RJK turn LEFT, intercept R-050 PUL, climbing to PUL VOR DME.	8000 FT	After passing 4000 FT, contact Pula Radar on 127.675 MHZ	
NAKIT3C	NAKIT THREE CHARLIE DEPARTURE Climb straight ahead. At RI L turn RIGHT intercept QDR 285° RI, climbing to intercept R- 264 RJK to NAKIT.	8000 FT	After passing 4000 FT, contact Pula Radar on 127.675 MHZ	

SID RWY 32

CALCULATION of SIDs is based on all-engines operative minimum net climb gradient of 3.3% (201 FT/NM).
Where a greater climb gradient for specific SID is necessary this is indicated in the description of the route.

SID RWY 32				
Designator	Route	After take off		Remarks
		Climb initially	Contact	
ALIVO3D	ALIVO THREE DELTA DEPARTURE Climb gradient up to 1640 FT at least 5.0% (304 FT/NM). Climb straight ahead. At 1640 FT, but not before 4.5 DME RJK, turn LEFT climbing to RJK VOR DME. At RJK VOR DME, turn LEFT, intercept R-018 RJK, climbing to ALIVO.	8000 FT	After passing 4000 FT, contact Pula Radar on 127.675 MHZ	Remain within 12.0 DME RJK during turn. Cross QDM 359° KO L at or above 4000 FT. Cross RJK VOR DME at or above 7000 FT. Cross ALIVO at or above 8000 FT.
RUGOG1D	RUGOG ONE DELTA DEPARTURE Climb gradient up to 1640 FT at least 5.0% (304 FT/NM). Climb straight ahead. At 1640 FT, but not before 4.5 DME RJK, turn LEFT climbing to RJK VOR DME. At RJK VOR DME, proceed climbing on R-080 RJK to RUGOG.	8000 FT	After passing 4000 FT, contact Pula Radar on 127.675 MHZ	Remain within 12.0 DME RJK during turn. Cross QDM 359° KO L at or above 4000 FT. Cross RJK VOR DME at or above 7000 FT. Cross 20.0 DME RJK at or above FL120.

SID RWY 32				
Designator	Route	After take off		Remarks
		Climb initially	Contact	
CRE4G	CRES FOUR GOLF DEPARTURE Climb gradient up to 1640 FT at least 5.0% (304 FT/NM). Avoid overflying LDD21. Climb straight ahead. At 1640 FT, turn LEFT, on track 149°, intercept QDM 179° CRE climbing to CRE NDB.	8000 FT	After passing 4000 FT, contact Pula Radar on 127.675 MHZ	Remain within 12.0 DME RJK during turn.
PUL3L	PULA THREE LIMA DEPARTURE Climb gradient up to 1640 FT at least 5.0% (304 FT/ NM).Avoid overflying LDD21. Climb straight ahead. At 1640 FT, turn LEFT on track 178°, at R-241 RJK turn RIGHT, intercept R-050 PUL climbing to PUL VOR DME.	8000 FT	After passing 4000 FT, contact Pula Radar on 127.675 MHZ	Remain within 12.0 DME RJK during turn.
NAKIT3D	NAKIT THREE DELTA DEPARTURE Climb gradient up to 5000 FT at least 5.0%(304 FT/ NM).Avoid overflying LDD21. Climb straight ahead. At 1640 FT, turn LEFT on track 178° climbing to intercept R-264 RJK to NAKIT.	8000 FT	After passing 4000 FT, contact Pula Radar on 127.675 MHZ	Remain within 12.0 DME RJK during turn.

STAR RWY 14/32

STAR RWY 14/32				
Designator	Route	Descend	Contact	Remarks
CRE4B	**CRES FOUR BRAVO ARRIVAL** From CRE NDB proceed on QDM 031° RI to RI L (MNM ALT 6000 FT) and hold.	As cleared by ATC		
CRE4K	**CRES FOUR KILO ARRIVAL** From CRE NDB proceed on QDM 031° RI to RI L (MNM ALT 7000 FT). At RI L turn LEFT to intercept and follow QDM 319° BRZ to BRZ NDB (MNM ALT 7000 FT) and hold.	As cleared by ATC		See BRZ NDB HLDG entry instructions on chart STAR RWY14/ 32.
PUL3B	**PULA THREE BRAVO ARRIVAL** From PUL VOR DME proceed on R-061 PUL (MNM ALT 6000 FT). At midpoint change over to RI L and proceed on QDM 061° RI to RI L (MNM ALT 6000 FT) and hold.	As cleared by ATC		
PUL3A	**PULA THREE ALPHA ARRIVAL** From PUL VOR DME intercept and follow QDM 025° BRZ to BRZ NDB (MNM ALT 7000 FT) and hold.	As cleared by ATC		
GIRDA1G	**GIRDA ONE GOLF ARRIVAL** From GIRDA proceed on QDM 105° BRZ to BRZ NDB (MNM ALT 7000 FT) and hold.	As cleared by ATC		
GIRDA1H	**GIRDA ONE HOTEL ARRIVAL** From GIRDA proceed on QDM 105° BRZ to BRZ NDB (MNM ALT 7000 FT). At BRZ NDB turn right to intercept QDM 139° RI to RI L (MNM ALT 6000 FT) and hold.	As cleared by ATC		

STAR RWY 14/32				
Designator	**Route**	**Descend**	**Contact**	**Remarks**
RUGOG 1A	**RUGOG ONE ALPHA ARRIVAL** From RUGOG proceed on QDM 278° BRZ (MNM ALT 7100 FT). After crossing R-009 RJK proceed on QDM 278° BRZ to BRZ NDB (MNM ALT 7000 FT) and hold.	As cleared by ATC		

Instrument Approach Chart (IAC) RWY 14

Caution note for ILS or LOC RWY 14, VOR RWY 14, L RWY 14:

Obstacle clearance calculation of the missed approach procedure is based on an all-engines operative minimum net climb gradient of 2.5 % (152 FT/NM) until BRZ NDB.
Pilot pre-flight planning must consider a higher missed approach climb performances appropriate to the intended flight to reach BRZ NDB HLDG at 7000 FT AMSL.

Instrument Approach Chart (IAC) RWY 32

Caution note for VOR RWY 32, Lz RWY 32, Ly RWY 32:

Obstacle clearance calculation of the missed approach procedure is based on an all-engines operative minimum net climb gradient of 2.5 % (152 FT/NM) until RI L.
Pilot pre-flight planning must consider a higher missed approach climb performances appropriate to the intended flight to reach RI L HLDG at 6000 FT AMSL.

Backup device on TWR in case of a complete communication failure

In case of complete communication failure, ATC signal light gun is available on Rijeka TWR.
Pilots shall observe light signals from TWR.

LDRI AD 2.23 ADDITIONAL INFORMATION

Bird concentration on and in the vicinity of RWY. Caution advised.