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**GEN 2 TABLES AND CODES**

**GEN 2.1 MJERNI SUSTAV, OZNAKE  
ZRAKOPLOVA, PRAZNICI**

**GEN 2.1 MEASURING SYSTEM,  
AIRCRAFT MARKINGS, HOLIDAYS**

Vidi AIP Hrvatske GEN 2.1

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**GEN 2.2 KRATICE KORIŠTENE U  
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AIS PUBLICATIONS**

Vidi AIP Hrvatske GEN 2.2

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**GEN 2.3 KARTOGRAFSKI  
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**GEN 2.3 CHART SYMBOLS**

Vidi AIP Hrvatske GEN 2.3

See AIP Croatia GEN 2.3

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## GEN 2.4 OZNAKE LOKACIJE

Oznake lokacije označene asteriskom (\*) ne mogu se koristiti kao dio adrese AFS poruka.

## GEN 2.4 LOCATION INDICATORS

The location indicators marked with an asterisk (\*) cannot be used in the address component of AFS messages.

ENCODE	
Ime/Name	Identifier
AGROKOR (Heliport)	LDAG*
BJELOVAR / BREZOVAC	LDZI*
BRAČ / BRAČ I.	LDSB
ČAKOVEC / PRIBISLAVEC	LDVC*
DUBROVNIK / RUĐER BOŠKOVIĆ	LDDU
SPLIT - FIRULE (Heliport)	LDSF*
GROBNIK / GROBNIČKO POLJE	LDRG*
HVAR / HVAR I.	LDSH*
WATER AERODROME HVAR / JELSA	LDSJ*
WATER AERODROME KORČULA/VELA LUKA	LDSL*
WATER AERODROME LASTOVO / UBLI	LDSU*
LOŠINJ / LOŠINJ I.	LDLO
WATER AERODROME LUMBARDA	LDSM*
WATER AERODROME MALI LOŠINJ	LDLM*
WATER AERODROME NOVALJA	LDZN*
OSIJEK / ČEPIN	LDOC*
OSIJEK / KLISA	LDOS
OTOČAC	LDRO*
PULA	LDPL
RIJEKA / KRK I.	LDRI

DECODE	
Identifier	Ime/Name
LDAG*	AGROKOR (Heliport)
LDDU	DUBROVNIK / RUĐER BOŠKOVIĆ
LDLM*	WATER AERODROME MALI LOŠINJ
LDLO	LOŠINJ / LOŠINJ I.
LDOB*	VUKOVAR / BOROVO NASELJE
LDOC*	OSIJEK / ČEPIN
LDOR*	SLAVONSKI BROD / JELAS
LDOS	OSIJEK / KLISA
LDOV*	VINKOVCI / SOPOT
LDPL	PULA
LDPV*	VRSAR / CRLJENKA
LDRD*	RIJEKA / DELTA (Heliport)
LDRG*	GROBNIK / GROBNIČKO POLJE
LDRI	RIJEKA / KRK I
LDRO*	OTOČAC
LDRP*	WATER AERODROME RIJEKA/PORT RIJEKA
LDSB	BRAČ / BRAČ I.
LDSF*	SPLIT - FIRULE (Heliport)
LDSH*	HVAR / HVAR I.
LDSJ*	WATER AERODROME HVAR / JELSA
LDSL*	WATER AERODROME KORČULA/VELA LUKA

(1). AFTN protocol via PSTN telefax during operating hours

ENCODE	
Ime/Name	Identifier
RIJEKA / DELTA (Heliport)	LDRD*
WATER AERODROME RIJEKA/PORT RIJEKA	LDRP*
SINJ	LDSS*
SLAVONSKI BROD / JELAS	LDOR*
SPLIT / SVETI JERONIM	LDSP
WATER AERODROME SPLIT / PORT SPLIT	LDST*
VARAŽDIN	LDVA*
VINKOVCI / SOPOT	LDOV*
VRSAR / CRLJENKA	LDPV*
VUKOVAR / BOROVO NASELJE	LDOB*
ZABOK / GUBAŠEVO	LDZK*
ZADAR / ZEMUNIK	LDZD
ZAGREB / BRATINA	LDZR*
ZAGREB / FRANJO TUĐMAN	LDZA
ZAGREB / LUČKO	LDZL
ZRAKOPLOVNO-TEHNIČKI CENTAR (Heliport)	LDZT*
ZVEKOVAC	LDZE*

DECODE	
Identifier	Ime/Name
LDSM*	WATER AERODROME LUMBARDA
LDSP	SPLIT / SVETI JERONIM
LDSS*	SINJ
LDST*	WATER AERODROME SPLIT / PORT SPLIT
LDSU*	WATER AERODROME LASTOVO / UBLI
LDVA*	VARAŽDIN
LDVC*	ČAKOVEC / PRIBISLAVEC
LDZA	ZAGREB / FRANJO TUĐMAN
LDZD	ZADAR / ZEMUNIK
LDZE*	ZVEKOVAC
LDZJ*	BJELOVAR / BREZOVAC
LDZK*	ZABOK / GUBAŠEVO
LDZL	ZAGREB / LUČKO
LDZN*	WATER AERODROME NOVALJA
LDZR*	ZAGREB / BRATINA
LDZT*	ZRAKOPLOVNO-TEHNIČKI CENTAR (Heliport)



ENCODE	
Ime/Name	Identifier
▶ Collective Address for the AFTN	LDZZ
CRES / Cres I. (Heliport)	LDHE*
CROATIA (MIL Heliport)	LDHC*
DIVULJE (MIL Heliport)	LDHD*
▶ National OPMET Centre	LDZM
PREKRIŽJE (MIL Heliport)	LDHP*
RAB / Rab I. (Heliport)	LDHR*
VELIKI BRIJUN I. (MIL Heliport)	LDHB*
▶ ZAGREB (AFTN)	LDDD
ZAGREB ACC/FIR	LDZO
▶ ZAGREB CITY	LDZG <sup>1</sup>

DECODE	
Identifier	Ime/Name
LDDD	ZAGREB (AFTN)
LDHB*	VELIKI BRIJUN I. (MIL Heliport)
LDHC*	CROATIA (MIL Heliport)
LDHD*	DIVULJE (MIL Heliport)
LDHE*	CRES / Cres I. (Heliport)
LDHP*	PREKRIŽJE (MIL Heliport)
LDHR*	RAB / Rab I. (Heliport)
LDZG <sup>1</sup>	ZAGREB CITY
LDZM	National OPMET Centre
LDZO	ZAGREB ACC/FIR
LDZZ	Collective Address for the AFTN

(1). AFTN protocol via PSTN telefax during operating hours

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## GEN 2.5 POPIS RADIONAVIGACIJSKIH SREDSTAVA GEN 2.5 LIST OF RADIO NAVIGATION AIDS

DECODE					ENCODE				
ID	Naziv postaje / Station name	Sredstvo / Aid	Namjena / Purpose	FREQ (CH)	Naziv postaje / Station name	Sredstvo / Aid	ID	Namjena / Purpose	FREQ (CH)
BO	BOKANJAC	L	A	385 KHZ	BARNA	VOR/DME	VBA	AE	117.4 MHZ (CH 121X)
BRC	BRAČ	DME	AE	(CH 101Y)	BOKANJAC	L	BO	A	385 KHZ
BRZ	BREZA	NDB	A	400 KHZ	BRAČ	DME	BRC	AE	(CH 101Y)
CE	ČEPIN	L	AE	372 KHZ	BRAČ	NDB	HUM	A	412 KHZ
CRE	CRES	NDB	AE	433 KHZ	BREZA	NDB	BRZ	A	400 KHZ
CV	CAVTAT	L	A	397 KHZ	CAVTAT	L	CV	A	397 KHZ
DBK	DUBROVNIK	VOR/DME	AE	115.4 MHZ (CH 101X)	ČEPIN	L	CE	AE	372 KHZ
DVN	DRVENIK	NDB	A	418 KHZ	CRES	NDB	CRE	AE	433 KHZ
GR	GRUDA	L	A	414 KHZ	DRVENIK	NDB	DVN	A	418 KHZ
HUM	BRAČ	NDB	A	412 KHZ	DUBROVNIK	DME 11	IDU	A	(CH 38X)
IDU	DUBROVNIK	DME 11	A	(CH 38X)	DUBROVNIK	VOR/DME	DBK	AE	115.4 MHZ (CH 101X)
IDU	DUBROVNIK / RUĐER BOŠKOVIĆ	LOC 11	A	110.1 MHZ	DUBROVNIK / RUĐER BOŠKOVIĆ	LOC 11	IDU	A	110.1 MHZ
IKR	RIJEKA / KRK I	LOC 14	A	108.5 MHZ	GRUDA	L	GR	A	414 KHZ
IOS	OSIJEK / KLISA	LOC 29	A	111.5 MHZ	JAPETIĆ	DME	JAP	AE	(CH 123Y)

DECODE					ENCODE				
ID	Naziv postaje / Station name	Sredstvo / Aid	Namjena / Purpose	FREQ (CH)	Naziv postaje / Station name	Sredstvo / Aid	ID	Namjena / Purpose	FREQ (CH)
IPU	PULA	LOC 27	A	111.5 MHZ	KAKMA	NDB	ZRA	A	330 KHZ
ISJ	OSIJEK	DME 11	A	(CH 48Y)	KAVRAN	NDB	KAV	A	265 KHZ
ISJ	OSIJEK	LOC 11	A	111. 150 MHZ	KOLOČEP	NDB	KLP	A	318 KHZ
IST	SPLIT	DME	AE	(CH 42X)	LOŠINJ	DME	LSJ	AE	(CH 21Y)
IST	SPLIT / SVETI JERONIM	LOC 05	A	110.5 MHZ	LOŠINJ	NDB	LOS	AE	429 KHZ
IZA	ZAGREB	DME 04	A	109.5 MHZ (CH 32X)	LOSINJ	VOR/DME	NTL	AE	117. 350 MHZ (CH 120Y)
IZA	ZAGREB / FRANJO TUĐMAN	LOC 04	A	109.5 MHZ	LUKAVEC	DME	LUK	AE	(CH 35Y)
IZD	ZADAR / ZEMUNIK	LOC 13	A	110.1 MHZ	OSIJEK	DME	KLS	AE	(CH 29Y)
IZG	ZAGREB / FRANJO TUĐMAN	LOC 22	A	109.1 MHZ	OSIJEK	NDB	OSJ	A	422 KHZ
JAP	JAPETIĆ	DME	AE	(CH 123Y)	OSIJEK / KLISA	LOC 29	IOS	A	111.5 MHZ
KAV	KAVRAN	NDB	A	265 KHZ	OSIJEK	LOC 11	ISJ	A	111. 150 MHZ
KLP	KOLOČEP	NDB	A	318 KHZ	OSIJEK	DME 11	ISJ	A	(CH 48Y)
KLS	OSIJEK	DME	AE	(CH 29Y)	PETROVA GORA	DME	PTG	AE	(CH 17Y)
LOS	LOŠINJ	NDB	AE	429 KHZ	PISAROVINA	NDB	PIS	AE	424 KHZ
LSJ	LOŠINJ	DME	AE	(CH 21Y)	PULA	LOC 27	IPU	A	111.5 MHZ

DECODE					ENCODE				
ID	Naziv postaje / Station name	Sredstvo / Aid	Namjena / Purpose	FREQ (CH)	Naziv postaje / Station name	Sredstvo / Aid	ID	Namjena / Purpose	FREQ (CH)
LUK	LUKAVEC	DME	AE	(CH 35Y)	PULA	NDB	PLA	A	351.5 KHZ
NTL	LOSINJ	VOR/ DME	AE	117. 350 MHZ (CH 120Y)	PULA	VOR/DME	PUL	AE	111. 25 MHZ (CH 49Y)
OSJ	OSIJEK	NDB	A	422 KHZ	RIJEKA	L	RI	A	289 KHZ
PIS	PISAROVINA	NDB	AE	424 KHZ	RIJEKA	VOR/DME	RJK	AE	117.8 MHZ (CH 125X)
PLA	PULA	NDB	A	351.5 KHZ	RIJEKA / KRK I	LOC 14	IKR	A	108.5 MHZ
PTG	PETROVA GORA	DME	AE	(CH 17Y)	S.KRALJEVEC	L	SK	A	350 KHZ
PUL	PULA	VOR/ DME	AE	111. 25 MHZ (CH 49Y)	SALI	NDB	SAL	AE	421 KHZ
RI	RIJEKA	L	A	289 KHZ	SPLIT	VOR/DME	SPL	AE	115.7 MHZ (CH 104X)
RJK	RIJEKA	VOR/ DME	AE	117.8 MHZ (CH 125X)	SPLIT	DME	IST	AE	(CH 42X)
SAL	SALI	NDB	AE	421 KHZ	SPLIT / SVETI JERONIM	LOC 05	IST	A	110.5 MHZ
SK	S.KRALJEVEC	L	A	350 KHZ	TOUNJ	NDB	TNJ	E	316 KHZ
SPL	SPLIT	VOR/ DME	AE	115.7 MHZ (CH 104X)	TROGIR	NDB	TRI	A	378 KHZ
TNJ	TOUNJ	NDB	E	316 KHZ	VELIKA GORICA	L	VG	A	325 KHZ
TRI	TROGIR	NDB	A	378 KHZ	VRSAR	NDB	VRS	AE	369 KHZ

DECODE					ENCODE				
ID	Naziv postaje / Station name	Sredstvo / Aid	Namjena / Purpose	FREQ (CH)	Naziv postaje / Station name	Sredstvo / Aid	ID	Namjena / Purpose	FREQ (CH)
VBA	BARNA	VOR/ DME	AE	117.4 MHZ (CH 121X)	ZADAR	L	ZK	A	348 KHZ
VG	VELIKA GORICA	L	A	325 KHZ	ZADAR	VOR/DME	ZDA	AE	108.6 MHZ (CH 23X)
VRS	VRSAR	NDB	AE	369 KHZ	ZADAR / ZEMUNIK	LOC 13	IZD	A	110.1 MHZ
ZAG	ZAGREB	VOR/ DME	AE	113.7 MHZ (CH 84X)	ZAGREB	DME 04	IZA	A	109.5 MHZ (CH 32X)
ZDA	ZADAR	VOR/ DME	AE	108.6 MHZ (CH 23X)	ZAGREB	VOR/DME	ZAG	AE	113.7 MHZ (CH 84X)
ZK	ZADAR	L	A	348 KHZ	ZAGREB / FRANJO TUĐMAN	LOC 04	IZA	A	109.5 MHZ
ZRA	KAKMA	NDB	A	330 KHZ	ZAGREB / FRANJO TUĐMAN	LOC 22	IZG	A	109.1 MHZ

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## GEN 2.7 IZLAZAK / ZALAZAK SUNCA

## GEN 2.7 SUNRISE / SUNSET

Tablice na sljedećim stranicama izradila je Zvezdarnica Zagreb - Zagrebački astronomski savez i ovdje su navedene uz njezino odobrenje. Tablice uključuju devet aerodroma.

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.

Vremena u tablicama izražena su u UTC-u za početak građanskog jutarnjeg sumraka, izlazak sunca (SR), zalazak sunca (SS) i kraj građanskog večernjeg sumraka, te su usrednjena za period od 2022. do 2030. godine.

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.

U ovom periodu, vremena za odabrani datum i mjesto maksimalno odstupaju do 2 MIN u odnosu na teoretski izračunata vremena koja se mogu naći u tablicama. Vremena označena kao početak građanskog jutarnjeg sumraka i kraj građanskog večernjeg sumraka izračunata su za visinu sunca  $6^\circ$  ispod obzora, kao što je uobičajeno.

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  $6^\circ$  below the horizon, as commonly used.

Vremena označena kao izlazak i zalazak sunca odnose se na trenutak kada se gornji rub Sunčeve ploče nađe točno na teoretski ravnom obzoru (npr. površina mora), uz iznos refrakcije od  $34'$ . Konfiguracija tla nije uzeta u obzir i stoga će stvarna vremena izlazaka i zalazaka odstupati od podataka u tablici. Ova odstupanja, ovisno o uvjetima u atmosferi i konfiguraciji tla, mogu biti reda veličine nekoliko minuta.

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.

Datum/ 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



Datum/ 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
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
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

Datum/ 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
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
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

Datum/ 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
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 NOV	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

Datum/ 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
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

Datum/ 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

Datum/ 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
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

Datum/ 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 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
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

Datum/ 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 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

Datum/ 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
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
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 NOV	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



Datum/ 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
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

Datum/ 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 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

Datum/ 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
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
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

Datum/ 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
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 NOV	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

Datum/ 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
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
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

Datum/ 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

Datum/ 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
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
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

Datum/ 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 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

Datum/ 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
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
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



Datum/ 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
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 NOV	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

Datum/ 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
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

Datum/ Date	ZAGREB LDZA 45 44 36N 016 04 08E			
	Twilight From	SR	SS	Twilight To
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
18 JUN	02:27	03:06	18:48	19:27
22 JUN	02:28	03:06	18:49	19:28

Datum/ Date	ZAGREB LDZA 45 44 36N 016 04 08E			
	Twilight From	SR	SS	Twilight To
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

Datum/ Date	ZAGREB LDZA 45 44 36N 016 04 08E			
	Twilight From	SR	SS	Twilight To
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 NOV	05:15	05:47	15:32	16:03
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

Datum/ Date	ZAGREB LDZA 45 44 36N 016 04 08E			
	Twilight From	SR	SS	Twilight To
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