

\*\* 44 48 : Tiada Fenomena

TAHUN = 2018  
LONG= 120.0 ~

\*\*\*\* ARGUMEN MASA DALAM WAKTU PIAWAI MALAYSIA \*\*\*\*

TARIKH			WAKTU TERBIT			TARIKH			WAKTU TERBENAM			LATITUD
H	B	TAHUN	BULAN			H	B	TAHUN	BULAN			o
			j	m	s				j	m	s	
27	12	2017	12	42	2	27	12	2017	0	14	58	0
28	12	2017	13	31	14	28	12	2017	1	2	47	0
29	12	2017	14	23	26	29	12	2017	1	53	10	0
30	12	2017	15	19	8	30	12	2017	2	46	57	0
31	12	2017	16	18	40	31	12	2017	3	44	23	0
1	1	2018	17	21	16	32	12	2017	4	45	36	0
2	1	2018	18	25	4	2	1	2018	5	49	3	0
3	1	2018	19	27	50	3	1	2018	6	52	38	0
4	1	2018	20	27	44	4	1	2018	7	54	13	0
5	1	2018	21	23	34	5	1	2018	8	52	17	0
6	1	2018	22	15	45	6	1	2018	9	46	22	0
7	1	2018	23	4	45	7	1	2018	10	37	4	0
8	1	2018	23	51	26	8	1	2018	11	25	0	0
9	1	2018	**	44	48	9	1	2018	12	11	4	0
10	1	2018	0	36	43	10	1	2018	12	56	11	0
11	1	2018	1	21	32	11	1	2018	13	40	59	0
12	1	2018	2	6	18	12	1	2018	14	26	14	0
13	1	2018	2	51	59	13	1	2018	15	12	21	0
14	1	2018	3	38	34	14	1	2018	15	59	20	0

TARIKH			WAKTU TERBIT			TARIKH			WAKTU TERBENAM			LATITUD
H	B	TAHUN	BULAN			H	B	TAHUN	BULAN			o
			j	m	s				j	m	s	
15	1	2018	4	25	58	15	1	2018	16	47	1	0
16	1	2018	5	13	50	16	1	2018	17	34	50	0
17	1	2018	6	1	37	17	1	2018	18	22	37	0
18	1	2018	6	49	14	18	1	2018	19	9	54	0
19	1	2018	7	36	8	19	1	2018	19	56	23	0
20	1	2018	8	22	13	20	1	2018	20	42	6	0
21	1	2018	9	7	41	21	1	2018	21	27	20	0
22	1	2018	9	52	51	22	1	2018	22	12	23	0
23	1	2018	10	38	26	23	1	2018	22	58	25	0
24	1	2018	11	25	24	24	1	2018	23	46	5	0
25	1	2018	12	14	30	25	1	2018	**	44	48	0
26	1	2018	13	6	34	26	1	2018	0	36	21	0
27	1	2018	14	1	57	27	1	2018	1	29	57	0
28	1	2018	15	0	51	28	1	2018	2	26	56	0
29	1	2018	16	2	29	29	1	2018	3	27	23	0
30	1	2018	17	5	5	30	1	2018	4	29	46	0
31	1	2018	18	6	41	31	1	2018	5	32	10	0
1	2	2018	19	5	41	32	1	2018	6	32	42	0
2	2	2018	20	1	6	2	2	2018	7	30	6	0
3	2	2018	20	53	19	3	2	2018	8	23	58	0
4	2	2018	21	42	46	4	2	2018	9	14	53	0
5	2	2018	22	30	12	5	2	2018	10	3	23	0

6	2	2018	23	16	27	6	2	2018	10	50	18	0
7	2	2018	**	44	48	7	2	2018	11	36	23	0
8	2	2018	0	2	16	8	2	2018	12	22	10	0
9	2	2018	0	47	58	9	2	2018	13	8	18	0
10	2	2018	1	34	29	10	2	2018	13	55	8	0
11	2	2018	2	21	39	11	2	2018	14	42	35	0
12	2	2018	3	9	23	12	2	2018	15	30	28	0
13	2	2018	3	57	20	13	2	2018	16	18	16	0
14	2	2018	4	45	0	14	2	2018	17	5	53	0

TARIKH			WAKTU TERBIT BULAN			TARIKH			WAKTU TERBENAM BULAN			LATITUD
H	B	TAHUN	j	m	s	H	B	TAHUN	j	m	s	o
15	2	2018	5	32	28	15	2	2018	17	53	1	0
16	2	2018	6	19	16	16	2	2018	18	39	29	0
17	2	2018	7	5	27	17	2	2018	19	25	24	0
18	2	2018	7	51	16	18	2	2018	20	11	8	0
19	2	2018	8	37	5	19	2	2018	20	56	59	0
20	2	2018	9	23	33	20	2	2018	21	44	2	0
21	2	2018	10	11	35	21	2	2018	22	32	50	0
22	2	2018	11	1	45	22	2	2018	23	24	5	0
23	2	2018	11	54	38	23	2	2018	**	44	48	0
24	2	2018	12	50	26	24	2	2018	0	18	16	0
25	2	2018	13	48	40	25	2	2018	1	15	24	0
26	2	2018	14	48	33	26	2	2018	2	14	33	0
27	2	2018	15	48	45	27	2	2018	3	14	55	0
28	2	2018	16	47	41	28	2	2018	4	14	43	0
1	3	2018	17	44	19	29	2	2018	5	12	40	0
2	3	2018	18	38	4	2	3	2018	6	8	0	0
3	3	2018	19	29	25	3	3	2018	7	0	33	0
4	3	2018	20	18	47	4	3	2018	7	50	58	0
5	3	2018	21	6	45	5	3	2018	8	39	40	0
6	3	2018	21	53	58	6	3	2018	9	27	18	0
7	3	2018	22	40	58	7	3	2018	10	14	26	0
8	3	2018	23	27	50	8	3	2018	11	1	25	0
9	3	2018	**	44	48	9	3	2018	11	48	37	0
10	3	2018	0	15	19	10	3	2018	12	36	17	0
11	3	2018	1	3	8	11	3	2018	13	24	13	0
12	3	2018	1	51	8	12	3	2018	14	12	10	0
13	3	2018	2	39	0	13	3	2018	14	59	45	0
14	3	2018	3	26	21	14	3	2018	15	47	0	0

TARIKH			WAKTU TERBIT BULAN			TARIKH			WAKTU TERBENAM BULAN			LATITUD
H	B	TAHUN	j	m	s	H	B	TAHUN	j	m	s	o
15	3	2018	4	13	28	15	3	2018	16	33	51	0
16	3	2018	5	0	7	16	3	2018	17	20	18	0
17	3	2018	5	46	31	17	3	2018	18	6	39	0
18	3	2018	6	33	1	18	3	2018	18	53	20	0
19	3	2018	7	20	6	19	3	2018	19	40	43	0
20	3	2018	8	8	19	20	3	2018	20	29	44	0
21	3	2018	8	58	30	21	3	2018	21	20	50	0
22	3	2018	9	50	56	22	3	2018	22	14	21	0
23	3	2018	10	45	49	23	3	2018	23	10	17	0
24	3	2018	11	42	50	24	3	2018	**	44	48	0
25	3	2018	12	41	3	25	3	2018	0	8	8	0

26	3	2018	13	39	30	26	3	2018	1	6	35	0
27	3	2018	14	37	6	27	3	2018	2	4	55	0
28	3	2018	15	32	52	28	3	2018	3	1	46	0
29	3	2018	16	26	25	29	3	2018	3	56	31	0
30	3	2018	17	17	40	30	3	2018	4	48	58	0
31	3	2018	18	7	18	31	3	2018	5	39	21	0
1	4	2018	18	55	49	32	3	2018	6	28	27	0
2	4	2018	19	43	42	2	4	2018	7	16	39	0
3	4	2018	20	31	25	3	4	2018	8	4	28	0
4	4	2018	21	19	16	4	4	2018	8	52	17	0
5	4	2018	22	7	7	5	4	2018	9	40	11	0
6	4	2018	22	55	24	6	4	2018	10	28	16	0
7	4	2018	23	43	43	7	4	2018	11	16	36	0
8	4	2018	**	44	48	8	4	2018	12	4	49	0
9	4	2018	0	31	46	9	4	2018	12	52	38	0
10	4	2018	1	19	20	10	4	2018	13	39	55	0
11	4	2018	2	6	18	11	4	2018	14	26	29	0
12	4	2018	2	52	34	12	4	2018	15	12	41	0
13	4	2018	3	38	48	13	4	2018	15	58	55	0
14	4	2018	4	25	14	14	4	2018	16	45	33	0

TARIKH			WAKTU TERBIT			TARIKH			WAKTU TERBENAM			LATITUD
H	B	TAHUN	j	m	s	H	B	TAHUN	j	m	s	o
15	4	2018	5	12	23	15	4	2018	17	33	13	0
16	4	2018	6	0	51	16	4	2018	18	22	19	0
17	4	2018	6	51	9	17	4	2018	19	13	46	0
18	4	2018	7	44	4	18	4	2018	20	7	49	0
19	4	2018	8	39	32	19	4	2018	21	4	22	0
20	4	2018	9	37	12	20	4	2018	22	2	50	0
21	4	2018	10	36	10	21	4	2018	23	2	5	0
22	4	2018	11	34	59	22	4	2018	**	44	48	0
23	4	2018	12	32	32	23	4	2018	0	0	27	0
24	4	2018	13	28	4	24	4	2018	0	57	16	0
25	4	2018	14	21	7	25	4	2018	1	51	38	0
26	4	2018	15	11	53	26	4	2018	2	43	33	0
27	4	2018	16	0	43	27	4	2018	3	33	21	0
28	4	2018	16	48	28	28	4	2018	4	21	30	0
29	4	2018	17	35	48	29	4	2018	5	9	3	0
30	4	2018	18	23	10	30	4	2018	5	56	23	0
1	5	2018	19	10	54	31	4	2018	6	43	56	0
2	5	2018	19	59	8	2	5	2018	7	31	56	0
3	5	2018	20	47	31	3	5	2018	8	20	19	0
4	5	2018	21	36	13	4	5	2018	9	8	52	0
5	5	2018	22	24	40	5	5	2018	9	57	30	0
6	5	2018	23	12	29	6	5	2018	10	45	40	0
7	5	2018	23	59	26	7	5	2018	11	33	3	0
8	5	2018	**	44	48	8	5	2018	12	19	37	0
9	5	2018	0	45	35	9	5	2018	13	5	21	0
10	5	2018	1	30	59	10	5	2018	13	50	45	0
11	5	2018	2	16	32	11	5	2018	14	36	28	0
12	5	2018	3	2	40	12	5	2018	15	23	4	0
13	5	2018	3	50	6	13	5	2018	16	11	19	0
14	5	2018	4	39	35	14	5	2018	17	1	49	0

TARIKH			WAKTU TERBIT			TARIKH			WAKTU TERBENAM			LATITUD
H	B	TAHUN	j	m	s	H	B	TAHUN	j	m	s	°
15	5	2018	5	31	42	15	5	2018	17	55	26	0
16	5	2018	6	27	11	16	5	2018	18	52	18	0
17	5	2018	7	25	39	17	5	2018	19	51	54	0
18	5	2018	8	26	11	18	5	2018	20	52	58	0
19	5	2018	9	27	15	19	5	2018	21	53	48	0
20	5	2018	10	27	0	20	5	2018	22	52	31	0
21	5	2018	11	24	12	21	5	2018	23	48	33	0
22	5	2018	12	18	29	22	5	2018	**	44	48	0
23	5	2018	13	9	47	23	5	2018	0	41	22	0
24	5	2018	13	58	43	24	5	2018	1	31	25	0
25	5	2018	14	46	2	25	5	2018	2	19	27	0
26	5	2018	15	32	25	26	5	2018	3	6	16	0
27	5	2018	16	18	46	27	5	2018	3	52	29	0
28	5	2018	17	5	38	28	5	2018	4	39	6	0
29	5	2018	17	53	14	29	5	2018	5	26	20	0
30	5	2018	18	41	32	30	5	2018	6	14	19	0
31	5	2018	19	30	3	31	5	2018	7	2	49	0
1	6	2018	20	18	41	32	5	2018	7	51	24	0
2	6	2018	21	6	53	2	6	2018	8	39	54	0
3	6	2018	21	54	10	3	6	2018	9	27	41	0
4	6	2018	22	40	23	4	6	2018	10	14	26	0
5	6	2018	23	25	38	5	6	2018	11	0	9	0
6	6	2018	**	44	48	6	6	2018	11	44	58	0
7	6	2018	0	10	5	7	6	2018	12	29	29	0
8	6	2018	0	54	49	8	6	2018	13	14	31	0
9	6	2018	1	40	25	9	6	2018	14	0	48	0
10	6	2018	2	27	46	10	6	2018	14	49	14	0
11	6	2018	3	17	45	11	6	2018	15	40	32	0
12	6	2018	4	11	0	12	6	2018	16	35	34	0
13	6	2018	5	8	16	13	6	2018	17	34	25	0
14	6	2018	6	8	54	14	6	2018	18	36	12	0

TARIKH			WAKTU TERBIT			TARIKH			WAKTU TERBENAM			LATITUD
H	B	TAHUN	j	m	s	H	B	TAHUN	j	m	s	°
15	6	2018	7	11	35	15	6	2018	19	39	11	0
16	6	2018	8	14	15	16	6	2018	20	41	15	0
17	6	2018	9	14	50	17	6	2018	21	40	23	0
18	6	2018	10	12	4	18	6	2018	22	36	10	0
19	6	2018	11	5	52	19	6	2018	23	28	26	0
20	6	2018	11	56	28	20	6	2018	**	44	48	0
21	6	2018	12	44	39	21	6	2018	0	17	47	0
22	6	2018	13	31	22	22	6	2018	1	5	7	0
23	6	2018	14	17	19	23	6	2018	1	51	24	0
24	6	2018	15	3	25	24	6	2018	2	37	15	0
25	6	2018	15	50	12	25	6	2018	3	23	42	0
26	6	2018	16	37	47	26	6	2018	4	10	54	0
27	6	2018	17	26	3	27	6	2018	4	58	52	0
28	6	2018	18	14	26	28	6	2018	5	47	19	0
29	6	2018	19	2	47	29	6	2018	6	35	42	0
30	6	2018	19	50	27	30	6	2018	7	23	48	0
1	7	2018	20	37	3	1	7	2018	8	10	59	0
2	7	2018	21	22	29	2	7	2018	8	57	0	0

3	7	2018	22	6	57	3	7	2018	9	41	55	0
4	7	2018	22	50	40	4	7	2018	10	25	58	0
5	7	2018	23	34	47	5	7	2018	11	9	48	0
6	7	2018	**	44	48	6	7	2018	11	54	20	0
7	7	2018	0	19	58	7	7	2018	12	40	21	0
8	7	2018	1	7	11	8	7	2018	13	28	49	0
9	7	2018	1	57	24	9	7	2018	14	20	39	0
10	7	2018	2	51	22	10	7	2018	15	16	16	0
11	7	2018	3	49	12	11	7	2018	16	15	51	0
12	7	2018	4	50	44	12	7	2018	17	18	26	0
13	7	2018	5	54	11	13	7	2018	18	22	0	0
14	7	2018	6	57	20	14	7	2018	19	24	20	0

TARIKH			WAKTU TERBIT BULAN			TARIKH			WAKTU TERBENAM BULAN			LATITUD
H	B	TAHUN	j	m	s	H	B	TAHUN	j	m	s	o
15	7	2018	7	58	6	15	7	2018	20	23	32	0
16	7	2018	8	55	19	16	7	2018	21	19	16	0
17	7	2018	9	49	5	17	7	2018	22	11	33	0
18	7	2018	10	39	44	18	7	2018	23	1	3	0
19	7	2018	11	28	7	19	7	2018	23	48	42	0
20	7	2018	12	15	10	20	7	2018	**	44	48	0
21	7	2018	13	1	34	21	7	2018	0	35	24	0
22	7	2018	13	48	7	22	7	2018	1	21	41	0
23	7	2018	14	35	18	23	7	2018	2	8	36	0
24	7	2018	15	23	8	24	7	2018	2	56	9	0
25	7	2018	16	11	26	25	7	2018	3	44	17	0
26	7	2018	16	59	47	26	7	2018	4	32	42	0
27	7	2018	17	47	31	27	7	2018	5	20	52	0
28	7	2018	18	34	30	28	7	2018	6	8	13	0
29	7	2018	19	20	26	29	7	2018	6	54	45	0
30	7	2018	20	5	17	30	7	2018	7	40	7	0
31	7	2018	20	49	17	31	7	2018	8	24	30	0
1	8	2018	21	32	47	1	8	2018	9	8	12	0
2	8	2018	22	16	51	2	8	2018	9	51	52	0
3	8	2018	23	2	11	3	8	2018	10	36	27	0
4	8	2018	23	49	38	4	8	2018	11	22	43	0
5	8	2018	**	44	48	5	8	2018	12	11	33	0
6	8	2018	0	40	14	6	8	2018	13	3	46	0
7	8	2018	1	34	33	7	8	2018	13	59	37	0
8	8	2018	2	32	27	8	8	2018	14	59	4	0
9	8	2018	3	33	40	9	8	2018	16	1	4	0
10	8	2018	4	36	22	10	8	2018	17	3	41	0
11	8	2018	5	38	30	11	8	2018	18	4	57	0
12	8	2018	6	38	19	12	8	2018	19	3	18	0
13	8	2018	7	34	55	13	8	2018	19	58	35	0
14	8	2018	8	28	31	14	8	2018	20	50	56	0

TARIKH			WAKTU TERBIT BULAN			TARIKH			WAKTU TERBENAM BULAN			LATITUD
H	B	TAHUN	j	m	s	H	B	TAHUN	j	m	s	o
15	8	2018	9	19	28	15	8	2018	21	40	58	0
16	8	2018	10	8	32	16	8	2018	22	29	29	0
17	8	2018	10	56	32	17	8	2018	23	17	14	0
18	8	2018	11	43	59	18	8	2018	**	44	48	0
19	8	2018	12	31	31	19	8	2018	0	4	35	0

20	8	2018	13	19	31	20	8	2018	0	52	26	0
21	8	2018	14	7	49	21	8	2018	1	40	38	0
22	8	2018	14	56	11	22	8	2018	2	29	4	0
23	8	2018	15	44	14	23	8	2018	3	17	22	0
24	8	2018	16	31	27	24	8	2018	4	5	8	0
25	8	2018	17	17	48	25	8	2018	4	51	52	0
26	8	2018	18	3	13	26	8	2018	5	37	47	0
27	8	2018	18	47	46	27	8	2018	6	22	44	0
28	8	2018	19	31	49	28	8	2018	7	6	58	0
29	8	2018	20	15	44	29	8	2018	7	50	53	0
30	8	2018	21	0	33	30	8	2018	8	35	5	0
31	8	2018	21	46	54	31	8	2018	9	20	34	0
1	9	2018	22	35	33	1	9	2018	10	7	56	0
2	9	2018	23	27	9	2	9	2018	10	57	55	0
3	9	2018	**	44	48	3	9	2018	11	51	3	0
4	9	2018	0	22	5	4	9	2018	12	47	15	0
5	9	2018	1	19	52	5	9	2018	13	46	7	0
6	9	2018	2	20	1	6	9	2018	14	46	35	0
7	9	2018	3	20	45	7	9	2018	15	46	58	0
8	9	2018	4	20	32	8	9	2018	16	45	51	0
9	9	2018	5	18	13	9	9	2018	17	42	26	0
10	9	2018	6	13	20	10	9	2018	18	36	20	0
11	9	2018	7	5	57	11	9	2018	19	28	12	0
12	9	2018	7	56	52	12	9	2018	20	18	31	0
13	9	2018	8	46	33	13	9	2018	21	7	54	0
14	9	2018	9	35	36	14	9	2018	21	56	52	0

TARIKH			WAKTU TERBIT			TARIKH			WAKTU TERBENAM			LATITUD
H	B	TAHUN	j	m	s	H	B	TAHUN	j	m	s	o
15	9	2018	10	24	21	15	9	2018	22	45	32	0
16	9	2018	11	13	5	16	9	2018	23	34	31	0
17	9	2018	12	2	2	17	9	2018	**	44	48	0
18	9	2018	12	50	51	18	9	2018	0	23	30	0
19	9	2018	13	39	16	19	9	2018	1	12	14	0
20	9	2018	14	26	58	20	9	2018	2	0	22	0
21	9	2018	15	13	34	21	9	2018	2	47	37	0
22	9	2018	15	59	18	22	9	2018	3	33	41	0
23	9	2018	16	44	18	23	9	2018	4	19	3	0
24	9	2018	17	28	50	24	9	2018	5	3	44	0
25	9	2018	18	13	22	25	9	2018	5	48	9	0
26	9	2018	18	58	18	26	9	2018	6	32	47	0
27	9	2018	19	44	40	27	9	2018	7	18	15	0
28	9	2018	20	33	1	28	9	2018	8	5	30	0
29	9	2018	21	23	52	29	9	2018	8	54	58	0
30	9	2018	22	17	30	30	9	2018	9	47	7	0
1	10	2018	23	13	45	1	10	2018	10	41	59	0
2	10	2018	**	44	48	2	10	2018	11	39	1	0
3	10	2018	0	11	38	3	10	2018	12	37	23	0
4	10	2018	1	10	32	4	10	2018	13	36	2	0
5	10	2018	2	8	51	5	10	2018	14	33	38	0
6	10	2018	3	5	32	6	10	2018	15	29	25	0
7	10	2018	4	0	13	7	10	2018	16	23	12	0
8	10	2018	4	52	54	8	10	2018	17	15	3	0
9	10	2018	5	43	55	9	10	2018	18	5	44	0
10	10	2018	6	34	10	10	10	2018	18	55	46	0

11	10	2018	7	23	58	11	10	2018	19	45	34	0
12	10	2018	8	13	43	12	10	2018	20	35	26	0
13	10	2018	9	3	30	13	10	2018	21	25	13	0
14	10	2018	9	53	17	14	10	2018	22	15	10	0

TARIKH			WAKTU TERBIT BULAN			TARIKH			WAKTU TERBENAM BULAN			LATITUD
H	B	TAHUN	j	m	s	H	B	TAHUN	j	m	s	o
15	10	2018	10	43	2	15	10	2018	23	4	47	0
16	10	2018	11	32	14	16	10	2018	23	53	41	0
17	10	2018	12	20	32	17	10	2018	**	44	48	0
18	10	2018	13	7	43	18	10	2018	0	41	29	0
19	10	2018	13	53	37	19	10	2018	1	28	4	0
20	10	2018	14	38	37	20	10	2018	2	13	21	0
21	10	2018	15	23	10	21	10	2018	2	58	4	0
22	10	2018	16	7	42	22	10	2018	3	42	28	0
23	10	2018	16	52	51	23	10	2018	4	27	9	0
24	10	2018	17	39	19	24	10	2018	5	12	47	0
25	10	2018	18	27	37	25	10	2018	6	0	1	0
26	10	2018	19	18	36	26	10	2018	6	49	27	0
27	10	2018	20	12	28	27	10	2018	7	41	48	0
28	10	2018	21	8	56	28	10	2018	8	36	56	0
29	10	2018	22	7	13	29	10	2018	9	34	19	0
30	10	2018	23	5	46	30	10	2018	10	32	48	0
31	10	2018	**	44	48	31	10	2018	11	31	5	0
32	10	2018	0	3	44	1	11	2018	12	28	11	0
2	11	2018	0	59	48	2	11	2018	13	23	15	0
3	11	2018	1	53	37	3	11	2018	14	16	6	0
4	11	2018	2	45	21	4	11	2018	15	7	7	0
5	11	2018	3	35	29	5	11	2018	15	56	43	0
6	11	2018	4	24	35	6	11	2018	16	45	49	0
7	11	2018	5	13	39	7	11	2018	17	35	2	0
8	11	2018	6	3	0	8	11	2018	18	24	40	0
9	11	2018	6	52	53	9	11	2018	19	14	51	0
10	11	2018	7	43	10	10	11	2018	20	5	11	0
11	11	2018	8	33	29	11	11	2018	20	55	37	0
12	11	2018	9	23	38	12	11	2018	21	45	28	0
13	11	2018	10	12	51	13	11	2018	22	34	11	0
14	11	2018	11	0	46	14	11	2018	23	21	26	0

TARIKH			WAKTU TERBIT BULAN			TARIKH			WAKTU TERBENAM BULAN			LATITUD
H	B	TAHUN	j	m	s	H	B	TAHUN	j	m	s	o
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16	11	2018	12	32	15	16	11	2018	0	7	14	0
17	11	2018	13	16	22	17	11	2018	0	51	33	0
18	11	2018	14	0	16	18	11	2018	1	35	27	0
19	11	2018	14	44	34	19	11	2018	2	19	20	0
20	11	2018	15	30	5	20	11	2018	3	4	0	0
21	11	2018	16	17	40	21	11	2018	3	50	18	0
22	11	2018	17	7	53	22	11	2018	4	39	2	0
23	11	2018	18	1	33	23	11	2018	5	30	44	0
24	11	2018	18	58	35	24	11	2018	6	26	3	0
25	11	2018	19	58	9	25	11	2018	7	24	23	0
26	11	2018	20	58	46	26	11	2018	8	24	35	0
27	11	2018	21	58	25	27	11	2018	9	24	52	0

28	11	2018	22	56	7	28	11	2018	10	23	38	0
29	11	2018	23	50	56	29	11	2018	11	19	59	0
30	11	2018	**	44	48	30	11	2018	12	13	28	0
31	11	2018	0	42	52	1	12	2018	13	4	24	0
2	12	2018	1	32	34	2	12	2018	13	53	29	0
3	12	2018	2	20	53	3	12	2018	14	41	26	0
4	12	2018	3	8	29	4	12	2018	15	29	16	0
5	12	2018	3	56	30	5	12	2018	16	17	38	0
6	12	2018	4	45	14	6	12	2018	17	6	48	0
7	12	2018	5	34	50	7	12	2018	17	56	49	0
8	12	2018	6	25	7	8	12	2018	18	47	17	0
9	12	2018	7	15	28	9	12	2018	19	37	24	0
10	12	2018	8	5	12	10	12	2018	20	26	52	0
11	12	2018	8	53	58	11	12	2018	21	14	59	0
12	12	2018	9	41	11	12	12	2018	22	1	26	0
13	12	2018	10	26	45	13	12	2018	22	46	16	0
14	12	2018	11	10	49	14	12	2018	23	29	39	0

TARIKH			WAKTU TERBIT			TARIKH			WAKTU TERBENAM			LATITUD
H	B	TAHUN	j	m	s	H	B	TAHUN	j	m	s	o
15	12	2018	11	53	59	15	12	2018	**	44	48	0
16	12	2018	12	37	6	16	12	2018	0	12	38	0
17	12	2018	13	20	55	17	12	2018	0	55	50	0
18	12	2018	14	6	23	18	12	2018	1	40	11	0
19	12	2018	14	54	28	19	12	2018	2	26	38	0
20	12	2018	15	45	53	20	12	2018	3	16	10	0
21	12	2018	16	41	21	21	12	2018	4	9	20	0
22	12	2018	17	40	41	22	12	2018	5	6	44	0
23	12	2018	18	42	37	23	12	2018	6	7	29	0
24	12	2018	19	45	12	24	12	2018	7	9	57	0
25	12	2018	20	46	17	25	12	2018	8	12	0	0
26	12	2018	21	44	10	26	12	2018	9	11	40	0
27	12	2018	22	38	47	27	12	2018	10	7	59	0
28	12	2018	23	30	16	28	12	2018	11	1	8	0
29	12	2018	**	44	48	29	12	2018	11	51	31	0
30	12	2018	0	19	24	30	12	2018	12	40	3	0
31	12	2018	1	7	10	31	12	2018	13	27	32	0
32	12	2018	1	54	18	1	1	2019	14	14	59	0
2	1	2019	2	42	0	2	1	2019	15	3	4	0
27	12	2017	12	41	54	27	12	2017	0	14	56	1
28	12	2017	13	30	45	28	12	2017	1	3	6	1
29	12	2017	14	22	37	29	12	2017	1	53	50	1
30	12	2017	15	18	1	30	12	2017	2	47	56	1
31	12	2017	16	17	18	31	12	2017	3	45	39	1
1	1	2018	17	19	46	32	12	2017	4	47	3	1
2	1	2018	18	23	33	2	1	2018	5	50	35	1
3	1	2018	19	26	27	3	1	2018	6	54	6	1
4	1	2018	20	26	34	4	1	2018	7	55	31	1
5	1	2018	21	22	41	5	1	2018	8	53	18	1
6	1	2018	22	15	12	6	1	2018	9	47	5	1
7	1	2018	23	4	32	7	1	2018	10	37	27	1
8	1	2018	23	51	33	8	1	2018	11	25	2	1
9	1	2018	**	44	48	9	1	2018	12	10	47	1
10	1	2018	0	37	10	10	1	2018	12	55	36	1
11	1	2018	1	22	16	11	1	2018	13	40	7	1



12	1	2018	2	7	18	12	1	2018	14	25	7	1
13	1	2018	2	53	13	13	1	2018	15	11	2	1
14	1	2018	3	39	57	14	1	2018	15	57	54	1

TARIKH			WAKTU TERBIT			TARIKH			WAKTU TERBENAM			LATITUD
			BULAN						BULAN			
H	B	TAHUN	j	m	s	H	B	TAHUN	j	m	s	o
15	1	2018	4	27	27	15	1	2018	16	45	31	1
16	1	2018	5	15	20	16	1	2018	17	33	20	1
17	1	2018	6	3	4	17	1	2018	18	21	13	1
18	1	2018	6	50	33	18	1	2018	19	8	40	1
19	1	2018	7	37	16	19	1	2018	19	55	22	1
20	1	2018	8	23	7	20	1	2018	20	41	20	1
21	1	2018	9	8	18	21	1	2018	21	26	52	1
22	1	2018	9	53	10	22	1	2018	22	12	14	1
23	1	2018	10	38	25	23	1	2018	22	58	36	1
24	1	2018	11	25	3	24	1	2018	23	46	36	1
25	1	2018	12	13	50	25	1	2018	**	44	48	1
26	1	2018	13	5	34	26	1	2018	0	37	11	1
27	1	2018	14	0	42	27	1	2018	1	31	5	1
28	1	2018	14	59	25	28	1	2018	2	28	17	1
29	1	2018	16	0	58	29	1	2018	3	28	53	1
30	1	2018	17	3	37	30	1	2018	4	31	17	1
31	1	2018	18	5	23	31	1	2018	5	33	34	1
1	2	2018	19	4	38	32	1	2018	6	33	54	1
2	2	2018	20	0	22	2	2	2018	7	30	59	1
3	2	2018	20	52	56	3	2	2018	8	24	31	1
4	2	2018	21	42	44	4	2	2018	9	15	5	1
5	2	2018	22	30	30	5	2	2018	10	3	15	1
6	2	2018	23	17	4	6	2	2018	10	49	49	1
7	2	2018	**	44	48	7	2	2018	11	35	37	1
8	2	2018	0	3	10	8	2	2018	12	21	9	1
9	2	2018	0	49	7	9	2	2018	13	7	3	1
10	2	2018	1	35	48	10	2	2018	13	53	44	1
11	2	2018	2	23	6	11	2	2018	14	41	6	1
12	2	2018	3	10	53	12	2	2018	15	28	58	1
13	2	2018	3	58	49	13	2	2018	16	16	50	1
14	2	2018	4	46	23	14	2	2018	17	4	35	1

TARIKH			WAKTU TERBIT			TARIKH			WAKTU TERBENAM			LATITUD
			BULAN						BULAN			
H	B	TAHUN	j	m	s	H	B	TAHUN	j	m	s	o
15	2	2018	5	33	40	15	2	2018	17	51	55	1
16	2	2018	6	20	15	16	2	2018	18	38	38	1
17	2	2018	7	6	10	17	2	2018	19	24	51	1
18	2	2018	7	51	40	18	2	2018	20	10	53	1
19	2	2018	8	37	10	19	2	2018	20	57	4	1
20	2	2018	9	23	18	20	2	2018	21	44	26	1
21	2	2018	10	11	1	21	2	2018	22	33	34	1
22	2	2018	11	0	52	22	2	2018	23	25	7	1
23	2	2018	11	53	28	23	2	2018	**	44	48	1
24	2	2018	12	49	3	24	2	2018	0	19	33	1
25	2	2018	13	47	10	25	2	2018	1	16	52	1
26	2	2018	14	47	3	26	2	2018	2	16	4	1
27	2	2018	15	47	21	27	2	2018	3	16	23	1
28	2	2018	16	46	30	28	2	2018	4	16	1	1

1	3	2018	17	43	26	29	2	2018	5	13	43	1
2	3	2018	18	37	31	2	3	2018	6	8	43	1
3	3	2018	19	29	12	3	3	2018	7	0	56	1
4	3	2018	20	18	55	4	3	2018	7	50	59	1
5	3	2018	21	7	14	5	3	2018	8	39	21	1
6	3	2018	21	54	45	6	3	2018	9	26	40	1
7	3	2018	22	42	1	7	3	2018	10	13	31	1
8	3	2018	23	29	6	8	3	2018	11	0	15	1
9	3	2018	**	44	48	9	3	2018	11	47	16	1
10	3	2018	0	16	44	10	3	2018	12	34	49	1
11	3	2018	1	4	38	11	3	2018	13	22	42	1
12	3	2018	1	52	38	12	3	2018	14	10	42	1
13	3	2018	2	40	26	13	3	2018	14	58	23	1
14	3	2018	3	27	38	14	3	2018	15	45	48	1

TARIKH			WAKTU TERBIT			TARIKH			WAKTU TERBENAM			LATITUD
H	B	TAHUN	j	m	s	H	B	TAHUN	j	m	s	o
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16	3	2018	5	0	56	16	3	2018	17	19	38	1
17	3	2018	5	47	2	17	3	2018	18	6	17	1
18	3	2018	6	33	13	18	3	2018	18	53	18	1
19	3	2018	7	19	58	19	3	2018	19	41	1	1
20	3	2018	8	7	50	20	3	2018	20	30	22	1
21	3	2018	8	57	41	21	3	2018	21	21	48	1
22	3	2018	9	49	50	22	3	2018	22	15	35	1
23	3	2018	10	44	29	23	3	2018	23	11	42	1
24	3	2018	11	41	20	24	3	2018	**	44	48	1
25	3	2018	12	39	31	25	3	2018	0	9	39	1
26	3	2018	13	38	2	26	3	2018	1	8	6	1
27	3	2018	14	35	49	27	3	2018	2	6	18	1
28	3	2018	15	31	51	28	3	2018	3	2	56	1
29	3	2018	16	25	43	29	3	2018	3	57	23	1
30	3	2018	17	17	18	30	3	2018	4	49	30	1
31	3	2018	18	7	17	31	3	2018	5	39	32	1
1	4	2018	18	56	8	32	3	2018	6	28	17	1
2	4	2018	19	44	21	2	4	2018	7	16	9	1
3	4	2018	20	32	21	3	4	2018	8	3	39	1
4	4	2018	21	20	27	4	4	2018	8	51	12	1
5	4	2018	22	8	30	5	4	2018	9	38	53	1
6	4	2018	22	56	54	6	4	2018	10	26	49	1
7	4	2018	23	45	15	7	4	2018	11	15	5	1
8	4	2018	**	44	48	8	4	2018	12	3	17	1
9	4	2018	0	33	15	9	4	2018	12	51	12	1
10	4	2018	1	20	42	10	4	2018	13	38	38	1
11	4	2018	2	7	29	11	4	2018	14	25	25	1
12	4	2018	2	53	30	12	4	2018	15	11	52	1
13	4	2018	3	39	27	13	4	2018	15	58	24	1
14	4	2018	4	25	34	14	4	2018	16	45	23	1

TARIKH			WAKTU TERBIT			TARIKH			WAKTU TERBENAM			LATITUD
H	B	TAHUN	j	m	s	H	B	TAHUN	j	m	s	o
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16	4	2018	6	0	30	16	4	2018	18	22	50	1
17	4	2018	6	50	28	17	4	2018	19	14	37	1

18	4	2018	7	43	3	18	4	2018	20	8	58	1
19	4	2018	8	38	15	19	4	2018	21	5	45	1
20	4	2018	9	35	44	20	4	2018	22	4	22	1
21	4	2018	10	34	37	21	4	2018	23	3	37	1
22	4	2018	11	33	28	22	4	2018	**	44	48	1
23	4	2018	12	31	10	23	4	2018	0	1	54	1
24	4	2018	13	26	56	24	4	2018	0	58	31	1
25	4	2018	14	20	17	25	4	2018	1	52	37	1
26	4	2018	15	11	23	26	4	2018	2	44	13	1
27	4	2018	16	0	33	27	4	2018	3	33	40	1
28	4	2018	16	48	40	28	4	2018	4	21	29	1
29	4	2018	17	36	20	29	4	2018	5	8	41	1
30	4	2018	18	24	0	30	4	2018	5	55	41	1
1	5	2018	19	12	0	31	4	2018	6	42	57	1
2	5	2018	20	0	27	2	5	2018	7	30	43	1
3	5	2018	20	49	0	3	5	2018	8	18	55	1
4	5	2018	21	37	46	4	5	2018	9	7	21	1
5	5	2018	22	26	12	5	5	2018	9	55	57	1
6	5	2018	23	13	56	6	5	2018	10	44	10	1
7	5	2018	**	44	48	7	5	2018	11	31	41	1
8	5	2018	0	0	43	8	5	2018	12	18	26	1
9	5	2018	0	46	39	9	5	2018	13	4	24	1
10	5	2018	1	31	47	10	5	2018	13	50	6	1
11	5	2018	2	17	2	11	5	2018	14	36	7	1
12	5	2018	3	2	50	12	5	2018	15	23	4	1
13	5	2018	3	49	55	13	5	2018	16	11	40	1
14	5	2018	4	39	3	14	5	2018	17	2	31	1

TARIKH			WAKTU TERBIT			TARIKH			WAKTU TERBENAM			LATITUD
H	B	TAHUN	j	m	s	H	B	TAHUN	j	m	s	o
15	5	2018	5	30	49	15	5	2018	17	56	27	1
16	5	2018	6	26	0	16	5	2018	18	53	37	1
17	5	2018	7	24	14	17	5	2018	19	53	24	1
18	5	2018	8	24	38	18	5	2018	20	54	33	1
19	5	2018	9	25	41	19	5	2018	21	55	20	1
20	5	2018	10	25	33	20	5	2018	22	53	52	1
21	5	2018	11	22	58	21	5	2018	23	49	39	1
22	5	2018	12	17	32	22	5	2018	**	44	48	1
23	5	2018	13	9	10	23	5	2018	0	42	9	1
24	5	2018	13	58	26	24	5	2018	1	31	52	1
25	5	2018	14	46	7	25	5	2018	2	19	33	1
26	5	2018	15	32	49	26	5	2018	3	6	1	1
27	5	2018	16	19	30	27	5	2018	3	51	54	1
28	5	2018	17	6	39	28	5	2018	4	38	13	1
29	5	2018	17	54	29	29	5	2018	5	25	11	1
30	5	2018	18	42	58	30	5	2018	6	12	58	1
31	5	2018	19	31	35	31	5	2018	7	1	19	1
1	6	2018	20	20	15	32	5	2018	7	49	51	1
2	6	2018	21	8	24	2	6	2018	8	38	22	1
3	6	2018	21	55	33	3	6	2018	9	26	14	1
4	6	2018	22	41	34	4	6	2018	10	13	9	1
5	6	2018	23	26	35	5	6	2018	10	59	6	1
6	6	2018	**	44	48	6	6	2018	11	44	10	1
7	6	2018	0	10	44	7	6	2018	12	28	59	1
8	6	2018	0	55	9	8	6	2018	13	14	21	1

9	6	2018	1	40	25	9	6	2018	14	0	58	1
10	6	2018	2	27	25	10	6	2018	14	49	45	1
11	6	2018	3	17	3	11	6	2018	15	41	23	1
12	6	2018	4	9	58	12	6	2018	16	36	44	1
13	6	2018	5	6	57	13	6	2018	17	35	50	1
14	6	2018	6	7	24	14	6	2018	18	37	45	1

TARIKH			WAKTU TERBIT			TARIKH			WAKTU TERBENAM			LATITUD
			BULAN						BULAN			
H	B	TAHUN	j	m	s	H	B	TAHUN	j	m	s	o
15	6	2018	7	10	0	15	6	2018	19	40	45	1
16	6	2018	8	12	44	16	6	2018	20	42	42	1
17	6	2018	9	13	29	17	6	2018	21	41	36	1
18	6	2018	10	11	0	18	6	2018	22	37	5	1
19	6	2018	11	5	7	19	6	2018	23	29	1	1
20	6	2018	11	56	4	20	6	2018	**	44	48	1
21	6	2018	12	44	36	21	6	2018	0	17	59	1
22	6	2018	13	31	40	22	6	2018	1	4	58	1
23	6	2018	14	17	57	23	6	2018	1	50	55	1
24	6	2018	15	4	20	24	6	2018	2	36	28	1
25	6	2018	15	51	23	25	6	2018	3	22	39	1
26	6	2018	16	39	9	26	6	2018	4	9	36	1
27	6	2018	17	27	34	27	6	2018	4	57	24	1
28	6	2018	18	16	0	28	6	2018	5	45	46	1
29	6	2018	19	4	19	29	6	2018	6	34	8	1
30	6	2018	19	51	54	30	6	2018	7	22	18	1
1	7	2018	20	38	19	1	7	2018	8	9	38	1
2	7	2018	21	23	31	2	7	2018	8	55	51	1
3	7	2018	22	7	43	3	7	2018	9	41	1	1
4	7	2018	22	51	9	4	7	2018	10	25	21	1
5	7	2018	23	34	56	5	7	2018	11	9	29	1
6	7	2018	**	44	48	6	7	2018	11	54	21	1
7	7	2018	0	19	46	7	7	2018	12	40	43	1
8	7	2018	1	6	39	8	7	2018	13	29	31	1
9	7	2018	1	56	32	9	7	2018	14	21	40	1
10	7	2018	2	50	12	10	7	2018	15	17	33	1
11	7	2018	3	47	47	11	7	2018	16	17	21	1
12	7	2018	4	49	11	12	7	2018	17	20	1	1
13	7	2018	5	52	37	13	7	2018	18	23	32	1
14	7	2018	6	55	53	14	7	2018	19	25	41	1

TARIKH			WAKTU TERBIT			TARIKH			WAKTU TERBENAM			LATITUD
			BULAN						BULAN			
H	B	TAHUN	j	m	s	H	B	TAHUN	j	m	s	o
15	7	2018	7	56	53	15	7	2018	20	24	36	1
16	7	2018	8	54	26	16	7	2018	21	20	0	1
17	7	2018	9	48	32	17	7	2018	22	11	55	1
18	7	2018	10	39	33	18	7	2018	23	1	3	1
19	7	2018	11	28	18	19	7	2018	23	48	22	1
20	7	2018	12	15	41	20	7	2018	**	44	48	1
21	7	2018	13	2	23	21	7	2018	0	34	43	1
22	7	2018	13	49	12	22	7	2018	1	20	43	1
23	7	2018	14	36	37	23	7	2018	2	7	23	1
24	7	2018	15	24	36	24	7	2018	2	54	44	1
25	7	2018	16	12	59	25	7	2018	3	42	45	1
26	7	2018	17	1	21	26	7	2018	4	31	8	1

27	7	2018	17	48	59	27	7	2018	5	19	21	1
28	7	2018	18	35	49	28	7	2018	6	6	49	1
29	7	2018	19	21	33	29	7	2018	6	53	31	1
30	7	2018	20	6	8	30	7	2018	7	39	8	1
31	7	2018	20	49	52	31	7	2018	8	23	47	1
1	8	2018	21	33	2	1	8	2018	9	7	47	1
2	8	2018	22	16	47	2	8	2018	9	51	46	1
3	8	2018	23	1	47	3	8	2018	10	36	41	1
4	8	2018	23	48	55	4	8	2018	11	23	17	1
5	8	2018	**	44	48	5	8	2018	12	12	27	1
6	8	2018	0	39	11	6	8	2018	13	4	57	1
7	8	2018	1	33	14	7	8	2018	14	1	2	1
8	8	2018	2	30	57	8	8	2018	15	0	38	1
9	8	2018	3	32	5	9	8	2018	16	2	39	1
10	8	2018	4	34	50	10	8	2018	17	5	8	1
11	8	2018	5	37	9	11	8	2018	18	6	10	1
12	8	2018	6	37	15	12	8	2018	19	4	12	1
13	8	2018	7	34	11	13	8	2018	19	59	8	1
14	8	2018	8	28	10	14	8	2018	20	51	7	1

TARIKH			WAKTU TERBIT			TARIKH			WAKTU TERBENAM			LATITUD
H	B	TAHUN	j	m	s	H	B	TAHUN	j	m	s	o
15	8	2018	9	19	29	15	8	2018	21	40	46	1
16	8	2018	10	8	55	16	8	2018	22	28	56	1
17	8	2018	10	57	14	17	8	2018	23	16	22	1
18	8	2018	11	45	0	18	8	2018	**	44	48	1
19	8	2018	12	32	47	19	8	2018	0	3	26	1
20	8	2018	13	20	57	20	8	2018	0	51	5	1
21	8	2018	14	9	21	21	8	2018	1	39	9	1
22	8	2018	14	57	45	22	8	2018	2	27	30	1
23	8	2018	15	45	45	23	8	2018	3	15	50	1
24	8	2018	16	32	49	24	8	2018	4	3	40	1
25	8	2018	17	18	59	25	8	2018	4	50	34	1
26	8	2018	18	4	9	26	8	2018	5	36	43	1
27	8	2018	18	48	26	27	8	2018	6	21	56	1
28	8	2018	19	32	11	28	8	2018	7	6	28	1
29	8	2018	20	15	46	29	8	2018	7	50	42	1
30	8	2018	21	0	14	30	8	2018	8	35	14	1
31	8	2018	21	46	16	31	8	2018	9	21	2	1
1	9	2018	22	34	36	1	9	2018	10	8	44	1
2	9	2018	23	25	56	2	9	2018	10	59	1	1
3	9	2018	**	44	48	3	9	2018	11	52	24	1
4	9	2018	0	20	38	4	9	2018	12	48	46	1
5	9	2018	1	18	18	5	9	2018	13	47	43	1
6	9	2018	2	18	27	6	9	2018	14	48	7	1
7	9	2018	3	19	18	7	9	2018	15	48	19	1
8	9	2018	4	19	19	8	9	2018	16	46	56	1
9	9	2018	5	17	19	9	9	2018	17	43	10	1
10	9	2018	6	12	48	10	9	2018	18	36	41	1
11	9	2018	7	5	47	11	9	2018	19	28	10	1
12	9	2018	7	57	5	12	9	2018	20	18	7	1
13	9	2018	8	47	8	13	9	2018	21	7	10	1
14	9	2018	9	36	30	14	9	2018	21	55	50	1

TARIKH WAKTU TERBIT TARIKH WAKTU TERBENAM LATITUD

H	B	TAHUN	BULAN			H	B	TAHUN	BULAN			o
			j	m	s				j	m	s	
15	9	2018	10	25	31	15	9	2018	22	44	15	1
16	9	2018	11	14	28	16	9	2018	23	33	3	1
17	9	2018	12	3	33	17	9	2018	**	44	48	1
18	9	2018	12	52	26	18	9	2018	0	21	57	1
19	9	2018	13	40	49	19	9	2018	1	10	39	1
20	9	2018	14	28	24	20	9	2018	1	58	51	1
21	9	2018	15	14	51	21	9	2018	2	46	15	1
22	9	2018	16	0	20	22	9	2018	3	32	31	1
23	9	2018	16	45	4	23	9	2018	4	18	9	1
24	9	2018	17	29	17	24	9	2018	5	3	7	1
25	9	2018	18	13	29	25	9	2018	5	47	52	1
26	9	2018	18	58	6	26	9	2018	6	32	50	1
27	9	2018	19	44	8	27	9	2018	7	18	38	1
28	9	2018	20	32	10	28	9	2018	8	6	13	1
29	9	2018	21	22	43	29	9	2018	8	56	0	1
30	9	2018	22	16	6	30	9	2018	9	48	24	1
1	10	2018	23	12	12	1	10	2018	10	43	28	1
2	10	2018	**	44	48	2	10	2018	11	40	36	1
3	10	2018	0	10	2	3	10	2018	12	38	58	1
4	10	2018	1	9	1	4	10	2018	13	37	29	1
5	10	2018	2	7	31	5	10	2018	14	34	51	1
6	10	2018	3	4	29	6	10	2018	15	30	19	1
7	10	2018	3	59	30	7	10	2018	16	23	45	1
8	10	2018	4	52	34	8	10	2018	17	15	13	1
9	10	2018	5	43	58	9	10	2018	18	5	31	1
10	10	2018	6	34	34	10	10	2018	18	55	11	1
11	10	2018	7	24	43	11	10	2018	19	44	39	1
12	10	2018	8	14	47	12	10	2018	20	34	15	1
13	10	2018	9	4	49	13	10	2018	21	23	48	1
14	10	2018	9	54	46	14	10	2018	22	13	37	1

TARIKH			WAKTU TERBIT			TARIKH			WAKTU TERBENAM			LATITUD
H	B	TAHUN	BULAN			H	B	TAHUN	BULAN			o
			j	m	s				j	m	s	
15	10	2018	10	44	37	15	10	2018	23	3	11	1
16	10	2018	11	33	50	16	10	2018	23	52	7	1
17	10	2018	12	22	3	17	10	2018	**	44	48	1
18	10	2018	13	9	5	18	10	2018	0	40	2	1
19	10	2018	13	54	46	19	10	2018	1	26	49	1
20	10	2018	14	39	30	20	10	2018	2	12	20	1
21	10	2018	15	23	45	21	10	2018	2	57	20	1
22	10	2018	16	7	57	22	10	2018	3	42	3	1
23	10	2018	16	52	46	23	10	2018	4	27	3	1
24	10	2018	17	38	53	24	10	2018	5	13	2	1
25	10	2018	18	26	51	25	10	2018	6	0	38	1
26	10	2018	19	17	31	26	10	2018	6	50	23	1
27	10	2018	20	11	7	27	10	2018	7	43	2	1
28	10	2018	21	7	24	28	10	2018	8	38	23	1
29	10	2018	22	5	36	29	10	2018	9	35	55	1
30	10	2018	23	4	11	30	10	2018	10	34	25	1
31	10	2018	**	44	48	31	10	2018	11	32	36	1
32	10	2018	0	2	19	1	11	2018	12	29	30	1
2	11	2018	0	58	38	2	11	2018	13	24	16	1
3	11	2018	1	52	46	3	11	2018	14	16	48	1

4	11	2018	2	44	51	4	11	2018	15	7	26	1
5	11	2018	3	35	22	5	11	2018	15	56	40	1
6	11	2018	4	24	50	6	11	2018	16	45	24	1
7	11	2018	5	14	16	7	11	2018	17	34	15	1
8	11	2018	6	3	57	8	11	2018	18	23	35	1
9	11	2018	6	54	7	9	11	2018	19	13	31	1
10	11	2018	7	44	36	10	11	2018	20	3	40	1
11	11	2018	8	35	4	11	11	2018	20	54	0	1
12	11	2018	9	25	15	12	11	2018	21	43	51	1
13	11	2018	10	14	26	13	11	2018	22	32	39	1
14	11	2018	11	2	14	14	11	2018	23	20	4	1

TARIKH			WAKTU TERBIT BULAN			TARIKH			WAKTU TERBENAM BULAN			LATITUD
H	B	TAHUN	j	m	s	H	B	TAHUN	j	m	s	o
15	11	2018	11	48	30	15	11	2018	**	44	48	1
16	11	2018	12	33	17	16	11	2018	0	6	5	1
17	11	2018	13	17	7	17	11	2018	0	50	40	1
18	11	2018	14	0	42	18	11	2018	1	34	52	1
19	11	2018	14	44	39	19	11	2018	2	19	5	1
20	11	2018	15	29	49	20	11	2018	3	4	5	1
21	11	2018	16	17	3	21	11	2018	3	50	45	1
22	11	2018	17	6	56	22	11	2018	4	39	49	1
23	11	2018	18	0	18	23	11	2018	5	31	51	1
24	11	2018	18	57	6	24	11	2018	6	27	26	1
25	11	2018	19	56	32	25	11	2018	7	25	57	1
26	11	2018	20	57	8	26	11	2018	8	26	14	1
27	11	2018	21	56	54	27	11	2018	9	26	27	1
28	11	2018	22	54	49	28	11	2018	10	25	2	1
29	11	2018	23	49	57	29	11	2018	11	21	8	1
30	11	2018	**	44	48	30	11	2018	12	14	17	1
31	11	2018	0	42	14	1	12	2018	13	4	51	1
2	12	2018	1	32	19	2	12	2018	13	53	34	1
3	12	2018	2	21	0	3	12	2018	14	41	9	1
4	12	2018	3	8	57	4	12	2018	15	28	37	1
5	12	2018	3	57	19	5	12	2018	16	16	40	1
6	12	2018	4	46	21	6	12	2018	17	5	34	1
7	12	2018	5	36	12	7	12	2018	17	55	21	1
8	12	2018	6	26	39	8	12	2018	18	45	42	1
9	12	2018	7	17	5	9	12	2018	19	35	46	1
10	12	2018	8	6	49	10	12	2018	20	25	17	1
11	12	2018	8	55	30	11	12	2018	21	13	32	1
12	12	2018	9	42	33	12	12	2018	22	0	10	1
13	12	2018	10	27	54	13	12	2018	22	45	15	1
14	12	2018	11	11	41	14	12	2018	23	28	55	1

TARIKH			WAKTU TERBIT BULAN			TARIKH			WAKTU TERBENAM BULAN			LATITUD
H	B	TAHUN	j	m	s	H	B	TAHUN	j	m	s	o
15	12	2018	11	54	33	15	12	2018	**	44	48	1
16	12	2018	12	37	22	16	12	2018	0	12	13	1
17	12	2018	13	20	50	17	12	2018	0	55	45	1
18	12	2018	14	5	57	18	12	2018	1	40	26	1
19	12	2018	14	53	42	19	12	2018	2	27	15	1
20	12	2018	15	44	47	20	12	2018	3	17	7	1
21	12	2018	16	39	59	21	12	2018	4	10	35	1

22	12	2018	17	39	7	22	12	2018	5	8	14	1
23	12	2018	18	40	59	23	12	2018	6	9	7	1
24	12	2018	19	43	37	24	12	2018	7	11	35	1
25	12	2018	20	44	53	25	12	2018	8	13	30	1
26	12	2018	21	43	4	26	12	2018	9	12	55	1
27	12	2018	22	38	1	27	12	2018	10	8	56	1
28	12	2018	23	29	52	28	12	2018	11	1	42	1
29	12	2018	**	44	48	29	12	2018	11	51	43	1
30	12	2018	0	19	23	30	12	2018	12	39	52	1
31	12	2018	1	7	31	31	12	2018	13	27	1	1
32	12	2018	1	55	1	1	1	2019	14	14	8	1
2	1	2019	2	43	1	2	1	2019	15	1	55	1
27	12	2017	12	41	45	27	12	2017	0	14	55	2
28	12	2017	13	30	16	28	12	2017	1	3	25	2
29	12	2017	14	21	48	29	12	2017	1	54	29	2
30	12	2017	15	16	53	30	12	2017	2	48	55	2
31	12	2017	16	15	56	31	12	2017	3	46	54	2
1	1	2018	17	18	15	32	12	2017	4	48	30	2
2	1	2018	18	22	2	2	1	2018	5	52	6	2
3	1	2018	19	25	3	3	1	2018	6	55	34	2
4	1	2018	20	25	23	4	1	2018	7	56	48	2
5	1	2018	21	21	48	5	1	2018	8	54	20	2
6	1	2018	22	14	39	6	1	2018	9	47	48	2
7	1	2018	23	4	19	7	1	2018	10	37	50	2
8	1	2018	23	51	40	8	1	2018	11	25	5	2
9	1	2018	**	44	48	9	1	2018	12	10	30	2
10	1	2018	0	37	37	10	1	2018	12	55	0	2
11	1	2018	1	23	0	11	1	2018	13	39	15	2
12	1	2018	2	8	18	12	1	2018	14	24	0	2
13	1	2018	2	54	26	13	1	2018	15	9	44	2
14	1	2018	3	41	20	14	1	2018	15	56	27	2

TARIKH			WAKTU TERBIT			TARIKH			WAKTU TERBENAM			LATITUD
H	B	TAHUN	j	m	s	H	B	TAHUN	j	m	s	o
15	1	2018	4	28	56	15	1	2018	16	44	1	2
16	1	2018	5	16	51	16	1	2018	17	31	51	2
17	1	2018	6	4	32	17	1	2018	18	19	49	2
18	1	2018	6	51	53	18	1	2018	19	7	25	2
19	1	2018	7	38	24	19	1	2018	19	54	21	2
20	1	2018	8	24	0	20	1	2018	20	40	35	2
21	1	2018	9	8	55	21	1	2018	21	26	24	2
22	1	2018	9	53	28	22	1	2018	22	12	5	2
23	1	2018	10	38	24	23	1	2018	22	58	46	2
24	1	2018	11	24	43	24	1	2018	23	47	6	2
25	1	2018	12	13	9	25	1	2018	**	44	48	2
26	1	2018	13	4	35	26	1	2018	0	38	2	2
27	1	2018	13	59	27	27	1	2018	1	32	12	2
28	1	2018	14	57	58	28	1	2018	2	29	39	2
29	1	2018	15	59	27	29	1	2018	3	30	23	2
30	1	2018	17	2	8	30	1	2018	4	32	48	2
31	1	2018	18	4	5	31	1	2018	5	34	58	2
1	2	2018	19	3	35	32	1	2018	6	35	5	2
2	2	2018	19	59	38	2	2	2018	7	31	52	2
3	2	2018	20	52	33	3	2	2018	8	25	4	2
4	2	2018	21	42	42	4	2	2018	9	15	17	2



5	2	2018	22	30	48	5	2	2018	10	3	6	2
6	2	2018	23	17	41	6	2	2018	10	49	21	2
7	2	2018	**	44	48	7	2	2018	11	34	51	2
8	2	2018	0	4	4	8	2	2018	12	20	7	2
9	2	2018	0	50	16	9	2	2018	13	5	49	2
10	2	2018	1	37	8	10	2	2018	13	52	20	2
11	2	2018	2	24	33	11	2	2018	14	39	37	2
12	2	2018	3	12	23	12	2	2018	15	27	28	2
13	2	2018	4	0	18	13	2	2018	16	15	23	2
14	2	2018	4	47	46	14	2	2018	17	3	16	2

TARIKH			WAKTU TERBIT			TARIKH			WAKTU TERBENAM			LATITUD
H	B	TAHUN	BULAN			H	B	TAHUN	BULAN			o
			j	m	s				j	m	s	
15	2	2018	5	34	53	15	2	2018	17	50	49	2
16	2	2018	6	21	14	16	2	2018	18	37	47	2
17	2	2018	7	6	52	17	2	2018	19	24	17	2
18	2	2018	7	52	5	18	2	2018	20	10	38	2
19	2	2018	8	37	15	19	2	2018	20	57	8	2
20	2	2018	9	23	3	20	2	2018	21	44	51	2
21	2	2018	10	10	26	21	2	2018	22	34	18	2
22	2	2018	10	59	58	22	2	2018	23	26	8	2
23	2	2018	11	52	18	23	2	2018	**	44	48	2
24	2	2018	12	47	40	24	2	2018	0	20	50	2
25	2	2018	13	45	40	25	2	2018	1	18	19	2
26	2	2018	14	45	32	26	2	2018	2	17	35	2
27	2	2018	15	45	57	27	2	2018	3	17	51	2
28	2	2018	16	45	19	28	2	2018	4	17	19	2
1	3	2018	17	42	32	29	2	2018	5	14	45	2
2	3	2018	18	36	58	2	3	2018	6	9	26	2
3	3	2018	19	29	0	3	3	2018	7	1	19	2
4	3	2018	20	19	4	4	3	2018	7	51	1	2
5	3	2018	21	7	42	5	3	2018	8	39	2	2
6	3	2018	21	55	32	6	3	2018	9	26	1	2
7	3	2018	22	43	4	7	3	2018	10	12	35	2
8	3	2018	23	30	22	8	3	2018	10	59	5	2
9	3	2018	**	44	48	9	3	2018	11	45	55	2
10	3	2018	0	18	10	10	3	2018	12	33	21	2
11	3	2018	1	6	9	11	3	2018	13	21	11	2
12	3	2018	1	54	8	12	3	2018	14	9	13	2
13	3	2018	2	41	52	13	3	2018	14	57	1	2
14	3	2018	3	28	55	14	3	2018	15	44	37	2

TARIKH			WAKTU TERBIT			TARIKH			WAKTU TERBENAM			LATITUD
H	B	TAHUN	BULAN			H	B	TAHUN	BULAN			o
			j	m	s				j	m	s	
15	3	2018	4	15	37	15	3	2018	16	31	56	2
16	3	2018	5	1	45	16	3	2018	17	18	57	2
17	3	2018	5	47	33	17	3	2018	18	5	56	2
18	3	2018	6	33	25	18	3	2018	18	53	16	2
19	3	2018	7	19	49	19	3	2018	19	41	20	2
20	3	2018	8	7	21	20	3	2018	20	31	1	2
21	3	2018	8	56	53	21	3	2018	21	22	45	2
22	3	2018	9	48	44	22	3	2018	22	16	48	2
23	3	2018	10	43	8	23	3	2018	23	13	8	2
24	3	2018	11	39	51	24	3	2018	**	44	48	2

25	3	2018	12	37	59	25	3	2018	0	11	10	2
26	3	2018	13	36	35	26	3	2018	1	9	36	2
27	3	2018	14	34	32	27	3	2018	2	7	41	2
28	3	2018	15	30	49	28	3	2018	3	4	5	2
29	3	2018	16	25	0	29	3	2018	3	58	15	2
30	3	2018	17	16	56	30	3	2018	4	50	2	2
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3	4	2018	20	33	18	3	4	2018	8	2	51	2
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5	4	2018	22	9	53	5	4	2018	9	37	36	2
6	4	2018	22	58	24	6	4	2018	10	25	22	2
7	4	2018	23	46	47	7	4	2018	11	13	34	2
8	4	2018	**	44	48	8	4	2018	12	1	46	2
9	4	2018	0	34	45	9	4	2018	12	49	45	2
10	4	2018	1	22	4	10	4	2018	13	37	21	2
11	4	2018	2	8	40	11	4	2018	14	24	20	2
12	4	2018	2	54	27	12	4	2018	15	11	4	2
13	4	2018	3	40	7	13	4	2018	15	57	54	2
14	4	2018	4	25	54	14	4	2018	16	45	12	2

TARIKH			WAKTU TERBIT			TARIKH			WAKTU TERBENAM			LATITUD
H	B	TAHUN	j	m	s	H	B	TAHUN	j	m	s	o
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16	4	2018	6	0	9	16	4	2018	18	23	21	2
17	4	2018	6	49	46	17	4	2018	19	15	28	2
18	4	2018	7	42	2	18	4	2018	20	10	7	2
19	4	2018	8	36	59	19	4	2018	21	7	8	2
20	4	2018	9	34	16	20	4	2018	22	5	53	2
21	4	2018	10	33	3	21	4	2018	23	5	10	2
22	4	2018	11	31	57	22	4	2018	**	44	48	2
23	4	2018	12	29	48	23	4	2018	0	3	21	2
24	4	2018	13	25	48	24	4	2018	0	59	46	2
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26	4	2018	15	10	53	26	4	2018	2	44	52	2
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28	4	2018	16	48	52	28	4	2018	4	21	27	2
29	4	2018	17	36	52	29	4	2018	5	8	18	2
30	4	2018	18	24	51	30	4	2018	5	54	59	2
1	5	2018	19	13	6	31	4	2018	6	41	58	2
2	5	2018	20	1	46	2	5	2018	7	29	29	2
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4	5	2018	21	39	18	4	5	2018	9	5	50	2
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6	5	2018	23	15	23	6	5	2018	10	42	39	2
7	5	2018	**	44	48	7	5	2018	11	30	18	2
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9	5	2018	0	47	44	9	5	2018	13	3	27	2
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11	5	2018	2	17	32	11	5	2018	14	35	47	2
12	5	2018	3	3	0	12	5	2018	15	23	3	2
13	5	2018	3	49	44	13	5	2018	16	12	1	2
14	5	2018	4	38	31	14	5	2018	17	3	13	2

TARIKH			WAKTU TERBIT			TARIKH			WAKTU TERBENAM			LATITUD
H	B	TAHUN	j	m	s	H	B	TAHUN	j	m	s	o
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16	5	2018	6	24	49	16	5	2018	18	54	55	2
17	5	2018	7	22	49	17	5	2018	19	54	53	2
18	5	2018	8	23	5	18	5	2018	20	56	7	2
19	5	2018	9	24	8	19	5	2018	21	56	51	2
20	5	2018	10	24	6	20	5	2018	22	55	13	2
21	5	2018	11	21	45	21	5	2018	23	50	45	2
22	5	2018	12	16	35	22	5	2018	**	44	48	2
23	5	2018	13	8	33	23	5	2018	0	42	56	2
24	5	2018	13	58	10	24	5	2018	1	32	18	2
25	5	2018	14	46	11	25	5	2018	2	19	39	2
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27	5	2018	16	20	13	27	5	2018	3	51	19	2
28	5	2018	17	7	40	28	5	2018	4	37	20	2
29	5	2018	17	55	45	29	5	2018	5	24	2	2
30	5	2018	18	44	24	30	5	2018	6	11	36	2
31	5	2018	19	33	7	31	5	2018	6	59	49	2
1	6	2018	20	21	49	32	5	2018	7	48	17	2
2	6	2018	21	9	54	2	6	2018	8	36	49	2
3	6	2018	21	56	56	3	6	2018	9	24	47	2
4	6	2018	22	42	45	4	6	2018	10	11	52	2
5	6	2018	23	27	31	5	6	2018	10	58	2	2
6	6	2018	**	44	48	6	6	2018	11	43	22	2
7	6	2018	0	11	22	7	6	2018	12	28	29	2
8	6	2018	0	55	29	8	6	2018	13	14	11	2
9	6	2018	1	40	24	9	6	2018	14	1	8	2
10	6	2018	2	27	4	10	6	2018	14	50	16	2
11	6	2018	3	16	21	11	6	2018	15	42	15	2
12	6	2018	4	8	56	12	6	2018	16	37	55	2
13	6	2018	5	5	38	13	6	2018	17	37	15	2
14	6	2018	6	5	54	14	6	2018	18	39	19	2

TARIKH			WAKTU TERBIT			TARIKH			WAKTU TERBENAM			LATITUD
H	B	TAHUN	j	m	s	H	B	TAHUN	j	m	s	o
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16	6	2018	8	11	13	16	6	2018	20	44	9	2
17	6	2018	9	12	9	17	6	2018	21	42	49	2
18	6	2018	10	9	56	18	6	2018	22	38	0	2
19	6	2018	11	4	23	19	6	2018	23	29	35	2
20	6	2018	11	55	40	20	6	2018	**	44	48	2
21	6	2018	12	44	34	21	6	2018	0	18	12	2
22	6	2018	13	31	58	22	6	2018	1	4	50	2
23	6	2018	14	18	34	23	6	2018	1	50	27	2
24	6	2018	15	5	16	24	6	2018	2	35	41	2
25	6	2018	15	52	34	25	6	2018	3	21	35	2
26	6	2018	16	40	32	26	6	2018	4	8	19	2
27	6	2018	17	29	5	27	6	2018	4	55	57	2
28	6	2018	18	17	35	28	6	2018	5	44	13	2
29	6	2018	19	5	52	29	6	2018	6	32	34	2
30	6	2018	19	53	20	30	6	2018	7	20	48	2
1	7	2018	20	39	35	1	7	2018	8	8	16	2
2	7	2018	21	24	34	2	7	2018	8	54	42	2

3	7	2018	22	8	29	3	7	2018	9	40	7	2
4	7	2018	22	51	37	4	7	2018	10	24	44	2
5	7	2018	23	35	5	5	7	2018	11	9	11	2
6	7	2018	**	44	48	6	7	2018	11	54	23	2
7	7	2018	0	19	34	7	7	2018	12	41	4	2
8	7	2018	1	6	7	8	7	2018	13	30	13	2
9	7	2018	1	55	40	9	7	2018	14	22	41	2
10	7	2018	2	49	2	10	7	2018	15	18	51	2
11	7	2018	3	46	22	11	7	2018	16	18	50	2
12	7	2018	4	47	37	12	7	2018	17	21	36	2
13	7	2018	5	51	2	13	7	2018	18	25	4	2
14	7	2018	6	54	26	14	7	2018	19	27	2	2

TARIKH			WAKTU TERBIT BULAN			TARIKH			WAKTU TERBENAM BULAN			LATITUD
H	B	TAHUN	j	m	s	H	B	TAHUN	j	m	s	o
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16	7	2018	8	53	32	16	7	2018	21	20	44	2
17	7	2018	9	48	0	17	7	2018	22	12	17	2
18	7	2018	10	39	22	18	7	2018	23	1	4	2
19	7	2018	11	28	28	19	7	2018	23	48	1	2
20	7	2018	12	16	12	20	7	2018	**	44	48	2
21	7	2018	13	3	13	21	7	2018	0	34	2	2
22	7	2018	13	50	18	22	7	2018	1	19	45	2
23	7	2018	14	37	56	23	7	2018	2	6	10	2
24	7	2018	15	26	5	24	7	2018	2	53	20	2
25	7	2018	16	14	33	25	7	2018	3	41	14	2
26	7	2018	17	2	54	26	7	2018	4	29	34	2
27	7	2018	17	50	28	27	7	2018	5	17	49	2
28	7	2018	18	37	9	28	7	2018	6	5	24	2
29	7	2018	19	22	41	29	7	2018	6	52	17	2
30	7	2018	20	7	0	30	7	2018	7	38	8	2
31	7	2018	20	50	26	31	7	2018	8	23	4	2
1	8	2018	21	33	18	1	8	2018	9	7	23	2
2	8	2018	22	16	43	2	8	2018	9	51	41	2
3	8	2018	23	1	23	3	8	2018	10	36	56	2
4	8	2018	23	48	11	4	8	2018	11	23	51	2
5	8	2018	**	44	48	5	8	2018	12	13	20	2
6	8	2018	0	38	8	6	8	2018	13	6	8	2
7	8	2018	1	31	55	7	8	2018	14	2	27	2
8	8	2018	2	29	27	8	8	2018	15	2	11	2
9	8	2018	3	30	31	9	8	2018	16	4	13	2
10	8	2018	4	33	18	10	8	2018	17	6	35	2
11	8	2018	5	35	48	11	8	2018	18	7	23	2
12	8	2018	6	36	12	12	8	2018	19	5	7	2
13	8	2018	7	33	28	13	8	2018	19	59	41	2
14	8	2018	8	27	49	14	8	2018	20	51	17	2

TARIKH			WAKTU TERBIT BULAN			TARIKH			WAKTU TERBENAM BULAN			LATITUD
H	B	TAHUN	j	m	s	H	B	TAHUN	j	m	s	o
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16	8	2018	10	9	19	16	8	2018	22	28	23	2
17	8	2018	10	57	57	17	8	2018	23	15	30	2
18	8	2018	11	46	0	18	8	2018	**	44	48	2
19	8	2018	12	34	2	19	8	2018	0	2	18	2

20	8	2018	13	22	23	20	8	2018	0	49	43	2
21	8	2018	14	10	54	21	8	2018	1	37	39	2
22	8	2018	14	59	19	22	8	2018	2	25	56	2
23	8	2018	15	47	16	23	8	2018	3	14	16	2
24	8	2018	16	34	12	24	8	2018	4	2	13	2
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26	8	2018	18	5	6	26	8	2018	5	35	40	2
27	8	2018	18	49	6	27	8	2018	6	21	8	2
28	8	2018	19	32	32	28	8	2018	7	5	57	2
29	8	2018	20	15	47	29	8	2018	7	50	30	2
30	8	2018	20	59	56	30	8	2018	8	35	22	2
31	8	2018	21	45	38	31	8	2018	9	21	31	2
1	9	2018	22	33	40	1	9	2018	10	9	31	2
2	9	2018	23	24	42	2	9	2018	11	0	7	2
3	9	2018	**	44	48	3	9	2018	11	53	44	2
4	9	2018	0	19	12	4	9	2018	12	50	17	2
5	9	2018	1	16	44	5	9	2018	13	49	18	2
6	9	2018	2	16	52	6	9	2018	14	49	39	2
7	9	2018	3	17	51	7	9	2018	15	49	40	2
8	9	2018	4	18	6	8	9	2018	16	48	0	2
9	9	2018	5	16	25	9	9	2018	17	43	54	2
10	9	2018	6	12	16	10	9	2018	18	37	3	2
11	9	2018	7	5	38	11	9	2018	19	28	8	2
12	9	2018	7	57	19	12	9	2018	20	17	44	2
13	9	2018	8	47	43	13	9	2018	21	6	25	2
14	9	2018	9	37	24	14	9	2018	21	54	48	2

TARIKH			WAKTU TERBIT			TARIKH			WAKTU TERBENAM			LATITUD
H	B	TAHUN	j	m	s	H	B	TAHUN	j	m	s	o
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16	9	2018	11	15	51	16	9	2018	23	31	36	2
17	9	2018	12	5	5	17	9	2018	**	44	48	2
18	9	2018	12	54	1	18	9	2018	0	20	23	2
19	9	2018	13	42	22	19	9	2018	1	9	5	2
20	9	2018	14	29	51	20	9	2018	1	57	21	2
21	9	2018	15	16	7	21	9	2018	2	44	53	2
22	9	2018	16	1	23	22	9	2018	3	31	22	2
23	9	2018	16	45	50	23	9	2018	4	17	15	2
24	9	2018	17	29	44	24	9	2018	5	2	31	2
25	9	2018	18	13	37	25	9	2018	5	47	34	2
26	9	2018	18	57	54	26	9	2018	6	32	52	2
27	9	2018	19	43	35	27	9	2018	7	19	0	2
28	9	2018	20	31	18	28	9	2018	8	6	55	2
29	9	2018	21	21	33	29	9	2018	8	57	1	2
30	9	2018	22	14	42	30	9	2018	9	49	41	2
1	10	2018	23	10	39	1	10	2018	10	44	57	2
2	10	2018	**	44	48	2	10	2018	11	42	12	2
3	10	2018	0	8	26	3	10	2018	12	40	33	2
4	10	2018	1	7	29	4	10	2018	13	38	56	2
5	10	2018	2	6	11	5	10	2018	14	36	3	2
6	10	2018	3	3	26	6	10	2018	15	31	13	2
7	10	2018	3	58	47	7	10	2018	16	24	17	2
8	10	2018	4	52	13	8	10	2018	17	15	22	2
9	10	2018	5	44	0	9	10	2018	18	5	17	2
10	10	2018	6	34	59	10	10	2018	18	54	36	2

11	10	2018	7	25	29	11	10	2018	19	43	44	2
12	10	2018	8	15	51	12	10	2018	20	33	3	2
13	10	2018	9	6	8	13	10	2018	21	22	23	2
14	10	2018	9	56	16	14	10	2018	22	12	4	2

TARIKH			WAKTU TERBIT BULAN			TARIKH			WAKTU TERBENAM BULAN			LATITUD
H	B	TAHUN	j	m	s	H	B	TAHUN	j	m	s	o
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16	10	2018	11	35	26	16	10	2018	23	50	33	2
17	10	2018	12	23	34	17	10	2018	**	44	48	2
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19	10	2018	13	55	55	19	10	2018	1	25	33	2
20	10	2018	14	40	24	20	10	2018	2	11	18	2
21	10	2018	15	24	21	21	10	2018	2	56	36	2
22	10	2018	16	8	13	22	10	2018	3	41	37	2
23	10	2018	16	52	41	23	10	2018	4	26	58	2
24	10	2018	17	38	28	24	10	2018	5	13	17	2
25	10	2018	18	26	5	25	10	2018	6	1	14	2
26	10	2018	19	16	27	26	10	2018	6	51	18	2
27	10	2018	20	9	47	27	10	2018	7	44	15	2
28	10	2018	21	5	52	28	10	2018	8	39	50	2
29	10	2018	22	3	59	29	10	2018	9	37	30	2
30	10	2018	23	2	36	30	10	2018	10	36	2	2
31	10	2018	**	44	48	31	10	2018	11	34	7	2
32	10	2018	0	0	53	1	11	2018	12	30	49	2
2	11	2018	0	57	28	2	11	2018	13	25	18	2
3	11	2018	1	51	54	3	11	2018	14	17	29	2
4	11	2018	2	44	21	4	11	2018	15	7	45	2
5	11	2018	3	35	14	5	11	2018	15	56	36	2
6	11	2018	4	25	5	6	11	2018	16	44	58	2
7	11	2018	5	14	53	7	11	2018	17	33	29	2
8	11	2018	6	4	53	8	11	2018	18	22	30	2
9	11	2018	6	55	20	9	11	2018	19	12	11	2
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11	11	2018	8	36	38	11	11	2018	20	52	24	2
12	11	2018	9	26	52	12	11	2018	21	42	14	2
13	11	2018	10	16	1	13	11	2018	22	31	7	2
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TARIKH			WAKTU TERBIT BULAN			TARIKH			WAKTU TERBENAM BULAN			LATITUD
H	B	TAHUN	j	m	s	H	B	TAHUN	j	m	s	o
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16	11	2018	12	34	18	16	11	2018	0	4	56	2
17	11	2018	13	17	51	17	11	2018	0	49	48	2
18	11	2018	14	1	7	18	11	2018	1	34	17	2
19	11	2018	14	44	45	19	11	2018	2	18	50	2
20	11	2018	15	29	34	20	11	2018	3	4	11	2
21	11	2018	16	16	27	21	11	2018	3	51	11	2
22	11	2018	17	5	59	22	11	2018	4	40	36	2
23	11	2018	17	59	3	23	11	2018	5	32	58	2
24	11	2018	18	55	37	24	11	2018	6	28	48	2
25	11	2018	19	54	55	25	11	2018	7	27	31	2
26	11	2018	20	55	30	26	11	2018	8	27	52	2
27	11	2018	21	55	23	27	11	2018	9	28	2	2

28	11	2018	22	53	32	28	11	2018	10	26	27	2
29	11	2018	23	48	58	29	11	2018	11	22	16	2
30	11	2018	**	44	48	30	11	2018	12	15	5	2
31	11	2018	0	41	37	1	12	2018	13	5	18	2
2	12	2018	1	32	3	2	12	2018	13	53	39	2
3	12	2018	2	21	6	3	12	2018	14	40	52	2
4	12	2018	3	9	26	4	12	2018	15	27	59	2
5	12	2018	3	58	8	5	12	2018	16	15	42	2
6	12	2018	4	47	28	6	12	2018	17	4	19	2
7	12	2018	5	37	34	7	12	2018	17	53	54	2
8	12	2018	6	28	11	8	12	2018	18	44	6	2
9	12	2018	7	18	43	9	12	2018	19	34	8	2
10	12	2018	8	8	26	10	12	2018	20	23	41	2
11	12	2018	8	57	2	11	12	2018	21	12	4	2
12	12	2018	9	43	55	12	12	2018	21	58	54	2
13	12	2018	10	29	2	13	12	2018	22	44	14	2
14	12	2018	11	12	34	14	12	2018	23	28	11	2

TARIKH			WAKTU TERBIT			TARIKH			WAKTU TERBENAM			LATITUD
H	B	TAHUN	j	m	s	H	B	TAHUN	j	m	s	o
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16	12	2018	12	37	37	16	12	2018	0	11	49	2
17	12	2018	13	20	45	17	12	2018	0	55	40	2
18	12	2018	14	5	31	18	12	2018	1	40	42	2
19	12	2018	14	52	56	19	12	2018	2	27	51	2
20	12	2018	15	43	41	20	12	2018	3	18	4	2
21	12	2018	16	38	36	21	12	2018	4	11	50	2
22	12	2018	17	37	32	22	12	2018	5	9	43	2
23	12	2018	18	39	20	23	12	2018	6	10	45	2
24	12	2018	19	42	1	24	12	2018	7	13	13	2
25	12	2018	20	43	29	25	12	2018	8	15	0	2
26	12	2018	21	41	57	26	12	2018	9	14	11	2
27	12	2018	22	37	15	27	12	2018	10	9	52	2
28	12	2018	23	29	29	28	12	2018	11	2	17	2
29	12	2018	**	44	48	29	12	2018	11	51	55	2
30	12	2018	0	19	23	30	12	2018	12	39	42	2
31	12	2018	1	7	53	31	12	2018	13	26	29	2
32	12	2018	1	55	43	1	1	2019	14	13	16	2
2	1	2019	2	44	2	2	1	2019	15	0	46	2
27	12	2017	12	41	37	27	12	2017	0	14	54	3
28	12	2017	13	29	47	28	12	2017	1	3	44	3
29	12	2017	14	20	59	29	12	2017	1	55	9	3
30	12	2017	15	15	46	30	12	2017	2	49	54	3
31	12	2017	16	14	34	31	12	2017	3	48	10	3
1	1	2018	17	16	45	32	12	2017	4	49	57	3
2	1	2018	18	20	31	2	1	2018	5	53	38	3
3	1	2018	19	23	39	3	1	2018	6	57	3	3
4	1	2018	20	24	12	4	1	2018	7	58	6	3
5	1	2018	21	20	55	5	1	2018	8	55	22	3
6	1	2018	22	14	6	6	1	2018	9	48	31	3
7	1	2018	23	4	6	7	1	2018	10	38	12	3
8	1	2018	23	51	47	8	1	2018	11	25	7	3
9	1	2018	**	44	48	9	1	2018	12	10	13	3
10	1	2018	0	38	4	10	1	2018	12	54	25	3
11	1	2018	1	23	45	11	1	2018	13	38	22	3

12	1	2018	2	9	19	12	1	2018	14	22	53	3
13	1	2018	2	55	39	13	1	2018	15	8	25	3
14	1	2018	3	42	43	14	1	2018	15	55	0	3

TARIKH			WAKTU TERBIT			TARIKH			WAKTU TERBENAM			LATITUD
			BULAN						BULAN			
H	B	TAHUN	j	m	s	H	B	TAHUN	j	m	s	o
15	1	2018	4	30	25	15	1	2018	16	42	30	3
16	1	2018	5	18	22	16	1	2018	17	30	21	3
17	1	2018	6	5	59	17	1	2018	18	18	24	3
18	1	2018	6	53	13	18	1	2018	19	6	11	3
19	1	2018	7	39	32	19	1	2018	19	53	19	3
20	1	2018	8	24	54	20	1	2018	20	39	49	3
21	1	2018	9	9	31	21	1	2018	21	25	56	3
22	1	2018	9	53	46	22	1	2018	22	11	56	3
23	1	2018	10	38	23	23	1	2018	22	58	57	3
24	1	2018	11	24	22	24	1	2018	23	47	37	3
25	1	2018	12	12	28	25	1	2018	**	44	48	3
26	1	2018	13	3	36	26	1	2018	0	38	52	3
27	1	2018	13	58	12	27	1	2018	1	33	20	3
28	1	2018	14	56	32	28	1	2018	2	31	1	3
29	1	2018	15	57	55	29	1	2018	3	31	53	3
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31	1	2018	18	2	46	31	1	2018	5	36	22	3
1	2	2018	19	2	32	32	1	2018	6	36	16	3
2	2	2018	19	58	54	2	2	2018	7	32	46	3
3	2	2018	20	52	10	3	2	2018	8	25	37	3
4	2	2018	21	42	39	4	2	2018	9	15	30	3
5	2	2018	22	31	6	5	2	2018	10	2	58	3
6	2	2018	23	18	18	6	2	2018	10	48	53	3
7	2	2018	**	44	48	7	2	2018	11	34	5	3
8	2	2018	0	4	59	8	2	2018	12	19	5	3
9	2	2018	0	51	25	9	2	2018	13	4	34	3
10	2	2018	1	38	29	10	2	2018	13	50	56	3
11	2	2018	2	26	1	11	2	2018	14	38	7	3
12	2	2018	3	13	54	12	2	2018	15	25	58	3
13	2	2018	4	1	47	13	2	2018	16	13	57	3
14	2	2018	4	49	9	14	2	2018	17	1	58	3

TARIKH			WAKTU TERBIT			TARIKH			WAKTU TERBENAM			LATITUD
			BULAN						BULAN			
H	B	TAHUN	j	m	s	H	B	TAHUN	j	m	s	o
15	2	2018	5	36	5	15	2	2018	17	49	42	3
16	2	2018	6	22	12	16	2	2018	18	36	56	3
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18	2	2018	7	52	29	18	2	2018	20	10	23	3
19	2	2018	8	37	20	19	2	2018	20	57	13	3
20	2	2018	9	22	48	20	2	2018	21	45	15	3
21	2	2018	10	9	51	21	2	2018	22	35	2	3
22	2	2018	10	59	5	22	2	2018	23	27	10	3
23	2	2018	11	51	8	23	2	2018	**	44	48	3
24	2	2018	12	46	17	24	2	2018	0	22	8	3
25	2	2018	13	44	10	25	2	2018	1	19	47	3
26	2	2018	14	44	1	26	2	2018	2	19	7	3
27	2	2018	15	44	33	27	2	2018	3	19	19	3
28	2	2018	16	44	8	28	2	2018	4	18	37	3



1	3	2018	17	41	39	29	2	2018	5	15	47	3
2	3	2018	18	36	24	2	3	2018	6	10	9	3
3	3	2018	19	28	47	3	3	2018	7	1	42	3
4	3	2018	20	19	12	4	3	2018	7	51	3	3
5	3	2018	21	8	11	5	3	2018	8	38	43	3
6	3	2018	21	56	19	6	3	2018	9	25	23	3
7	3	2018	22	44	7	7	3	2018	10	11	39	3
8	3	2018	23	31	38	8	3	2018	10	57	55	3
9	3	2018	**	44	48	9	3	2018	11	44	33	3
10	3	2018	0	19	35	10	3	2018	12	31	52	3
11	3	2018	1	7	39	11	3	2018	13	19	40	3
12	3	2018	1	55	39	12	3	2018	14	7	44	3
13	3	2018	2	43	18	13	3	2018	14	55	39	3
14	3	2018	3	30	13	14	3	2018	15	43	25	3

TARIKH			WAKTU TERBIT			TARIKH			WAKTU TERBENAM			LATITUD
H	B	TAHUN	j	m	s	H	B	TAHUN	j	m	s	o
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16	3	2018	5	2	34	16	3	2018	17	18	17	3
17	3	2018	5	48	4	17	3	2018	18	5	34	3
18	3	2018	6	33	36	18	3	2018	18	53	14	3
19	3	2018	7	19	40	19	3	2018	19	41	38	3
20	3	2018	8	6	52	20	3	2018	20	31	39	3
21	3	2018	8	56	4	21	3	2018	21	23	42	3
22	3	2018	9	47	38	22	3	2018	22	18	1	3
23	3	2018	10	41	48	23	3	2018	23	14	33	3
24	3	2018	11	38	22	24	3	2018	**	44	48	3
25	3	2018	12	36	27	25	3	2018	0	12	42	3
26	3	2018	13	35	7	26	3	2018	1	11	7	3
27	3	2018	14	33	15	27	3	2018	2	9	4	3
28	3	2018	15	29	48	28	3	2018	3	5	15	3
29	3	2018	16	24	17	29	3	2018	3	59	7	3
30	3	2018	17	16	34	30	3	2018	4	50	34	3
31	3	2018	18	7	16	31	3	2018	5	39	53	3
1	4	2018	18	56	48	32	3	2018	6	27	58	3
2	4	2018	19	45	39	2	4	2018	7	15	9	3
3	4	2018	20	34	15	3	4	2018	8	2	2	3
4	4	2018	21	22	51	4	4	2018	8	49	2	3
5	4	2018	22	11	16	5	4	2018	9	36	18	3
6	4	2018	22	59	54	6	4	2018	10	23	55	3
7	4	2018	23	48	19	7	4	2018	11	12	2	3
8	4	2018	**	44	48	8	4	2018	12	0	15	3
9	4	2018	0	36	14	9	4	2018	12	48	19	3
10	4	2018	1	23	27	10	4	2018	13	36	3	3
11	4	2018	2	9	51	11	4	2018	14	23	16	3
12	4	2018	2	55	24	12	4	2018	15	10	15	3
13	4	2018	3	40	46	13	4	2018	15	57	23	3
14	4	2018	4	26	15	14	4	2018	16	45	2	3

TARIKH			WAKTU TERBIT			TARIKH			WAKTU TERBENAM			LATITUD
H	B	TAHUN	j	m	s	H	B	TAHUN	j	m	s	o
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16	4	2018	5	59	48	16	4	2018	18	23	52	3
17	4	2018	6	49	5	17	4	2018	19	16	19	3

18	4	2018	7	41	2	18	4	2018	20	11	16	3
19	4	2018	8	35	42	19	4	2018	21	8	31	3
20	4	2018	9	32	48	20	4	2018	22	7	24	3
21	4	2018	10	31	30	21	4	2018	23	6	43	3
22	4	2018	11	30	26	22	4	2018	**	44	48	3
23	4	2018	12	28	25	23	4	2018	0	4	48	3
24	4	2018	13	24	40	24	4	2018	1	1	1	3
25	4	2018	14	18	37	25	4	2018	1	54	35	3
26	4	2018	15	10	23	26	4	2018	2	45	32	3
27	4	2018	16	0	15	27	4	2018	3	34	19	3
28	4	2018	16	49	4	28	4	2018	4	21	25	3
29	4	2018	17	37	24	29	4	2018	5	7	56	3
30	4	2018	18	25	41	30	4	2018	5	54	17	3
1	5	2018	19	14	12	31	4	2018	6	40	59	3
2	5	2018	20	3	6	2	5	2018	7	28	16	3
3	5	2018	20	51	57	3	5	2018	8	16	6	3
4	5	2018	21	40	51	4	5	2018	9	4	18	3
5	5	2018	22	29	17	5	5	2018	9	52	51	3
6	5	2018	23	16	50	6	5	2018	10	41	9	3
7	5	2018	**	44	48	7	5	2018	11	28	55	3
8	5	2018	0	3	18	8	5	2018	12	16	3	3
9	5	2018	0	48	48	9	5	2018	13	2	31	3
10	5	2018	1	33	23	10	5	2018	13	48	46	3
11	5	2018	2	18	2	11	5	2018	14	35	26	3
12	5	2018	3	3	10	12	5	2018	15	23	3	3
13	5	2018	3	49	34	13	5	2018	16	12	22	3
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TARIKH			WAKTU TERBIT			TARIKH			WAKTU TERBENAM			LATITUD
H	B	TAHUN	j	m	s	H	B	TAHUN	j	m	s	o
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16	5	2018	6	23	38	16	5	2018	18	56	13	3
17	5	2018	7	21	24	17	5	2018	19	56	23	3
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19	5	2018	9	22	34	19	5	2018	21	58	22	3
20	5	2018	10	22	40	20	5	2018	22	56	34	3
21	5	2018	11	20	31	21	5	2018	23	51	51	3
22	5	2018	12	15	39	22	5	2018	**	44	48	3
23	5	2018	13	7	56	23	5	2018	0	43	42	3
24	5	2018	13	57	53	24	5	2018	1	32	44	3
25	5	2018	14	46	15	25	5	2018	2	19	44	3
26	5	2018	15	33	39	26	5	2018	3	5	31	3
27	5	2018	16	20	57	27	5	2018	3	50	44	3
28	5	2018	17	8	42	28	5	2018	4	36	27	3
29	5	2018	17	57	0	29	5	2018	5	22	53	3
30	5	2018	18	45	50	30	5	2018	6	10	15	3
31	5	2018	19	34	40	31	5	2018	6	58	19	3
1	6	2018	20	23	23	32	5	2018	7	46	43	3
2	6	2018	21	11	25	2	6	2018	8	35	16	3
3	6	2018	21	58	18	3	6	2018	9	23	20	3
4	6	2018	22	43	56	4	6	2018	10	10	35	3
5	6	2018	23	28	27	5	6	2018	10	56	58	3
6	6	2018	**	44	48	6	6	2018	11	42	35	3
7	6	2018	0	12	1	7	6	2018	12	28	0	3
8	6	2018	0	55	49	8	6	2018	13	14	0	3

9	6	2018	1	40	24	9	6	2018	14	1	19	3
10	6	2018	2	26	42	10	6	2018	14	50	47	3
11	6	2018	3	15	39	11	6	2018	15	43	7	3
12	6	2018	4	7	55	12	6	2018	16	39	5	3
13	6	2018	5	4	20	13	6	2018	17	38	40	3
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TARIKH			WAKTU TERBIT			TARIKH			WAKTU TERBENAM			LATITUD
			BULAN						BULAN			
H	B	TAHUN	j	m	s	H	B	TAHUN	j	m	s	o
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16	6	2018	8	9	41	16	6	2018	20	45	36	3
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18	6	2018	10	8	52	18	6	2018	22	38	55	3
19	6	2018	11	3	38	19	6	2018	23	30	10	3
20	6	2018	11	55	17	20	6	2018	**	44	48	3
21	6	2018	12	44	31	21	6	2018	0	18	25	3
22	6	2018	13	32	16	22	6	2018	1	4	42	3
23	6	2018	14	19	12	23	6	2018	1	49	59	3
24	6	2018	15	6	11	24	6	2018	2	34	54	3
25	6	2018	15	53	45	25	6	2018	3	20	31	3
26	6	2018	16	41	55	26	6	2018	4	7	1	3
27	6	2018	17	30	36	27	6	2018	4	54	29	3
28	6	2018	18	19	9	28	6	2018	5	42	39	3
29	6	2018	19	7	25	29	6	2018	6	31	0	3
30	6	2018	19	54	47	30	6	2018	7	19	18	3
1	7	2018	20	40	51	1	7	2018	8	6	55	3
2	7	2018	21	25	36	2	7	2018	8	53	32	3
3	7	2018	22	9	15	3	7	2018	9	39	12	3
4	7	2018	22	52	5	4	7	2018	10	24	7	3
5	7	2018	23	35	14	5	7	2018	11	8	52	3
6	7	2018	**	44	48	6	7	2018	11	54	24	3
7	7	2018	0	19	23	7	7	2018	12	41	26	3
8	7	2018	1	5	34	8	7	2018	13	30	55	3
9	7	2018	1	54	48	9	7	2018	14	23	42	3
10	7	2018	2	47	51	10	7	2018	15	20	9	3
11	7	2018	3	44	57	11	7	2018	16	20	20	3
12	7	2018	4	46	4	12	7	2018	17	23	11	3
13	7	2018	5	49	28	13	7	2018	18	26	35	3
14	7	2018	6	52	59	14	7	2018	19	28	23	3

TARIKH			WAKTU TERBIT			TARIKH			WAKTU TERBENAM			LATITUD
			BULAN						BULAN			
H	B	TAHUN	j	m	s	H	B	TAHUN	j	m	s	o
15	7	2018	7	54	28	15	7	2018	20	26	45	3
16	7	2018	8	52	38	16	7	2018	21	21	27	3
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18	7	2018	10	39	11	18	7	2018	23	1	4	3
19	7	2018	11	28	39	19	7	2018	23	47	40	3
20	7	2018	12	16	43	20	7	2018	**	44	48	3
21	7	2018	13	4	3	21	7	2018	0	33	21	3
22	7	2018	13	51	24	22	7	2018	1	18	46	3
23	7	2018	14	39	16	23	7	2018	2	4	56	3
24	7	2018	15	27	34	24	7	2018	2	51	55	3
25	7	2018	16	16	6	25	7	2018	3	39	42	3
26	7	2018	17	4	28	26	7	2018	4	28	0	3

27	7	2018	17	51	57	27	7	2018	5	16	18	3
28	7	2018	18	38	29	28	7	2018	6	4	0	3
29	7	2018	19	23	48	29	7	2018	6	51	3	3
30	7	2018	20	7	52	30	7	2018	7	37	9	3
31	7	2018	20	51	0	31	7	2018	8	22	21	3
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3	8	2018	23	0	59	3	8	2018	10	37	10	3
4	8	2018	23	47	27	4	8	2018	11	24	26	3
5	8	2018	**	44	48	5	8	2018	12	14	14	3
6	8	2018	0	37	5	6	8	2018	13	7	19	3
7	8	2018	1	30	37	7	8	2018	14	3	52	3
8	8	2018	2	27	56	8	8	2018	15	3	44	3
9	8	2018	3	28	56	9	8	2018	16	5	47	3
10	8	2018	4	31	46	10	8	2018	17	8	3	3
11	8	2018	5	34	27	11	8	2018	18	8	37	3
12	8	2018	6	35	8	12	8	2018	19	6	1	3
13	8	2018	7	32	45	13	8	2018	20	0	13	3
14	8	2018	8	27	28	14	8	2018	20	51	27	3

TARIKH			WAKTU TERBIT			TARIKH			WAKTU TERBENAM			LATITUD
H	B	TAHUN	j	m	s	H	B	TAHUN	j	m	s	o
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16	8	2018	10	9	42	16	8	2018	22	27	50	3
17	8	2018	10	58	41	17	8	2018	23	14	38	3
18	8	2018	11	47	1	18	8	2018	**	44	48	3
19	8	2018	12	35	17	19	8	2018	0	1	9	3
20	8	2018	13	23	49	20	8	2018	0	48	22	3
21	8	2018	14	12	26	21	8	2018	1	36	8	3
22	8	2018	15	0	53	22	8	2018	2	24	22	3
23	8	2018	15	48	47	23	8	2018	3	12	43	3
24	8	2018	16	35	36	24	8	2018	4	0	46	3
25	8	2018	17	21	22	25	8	2018	4	47	59	3
26	8	2018	18	6	2	26	8	2018	5	34	35	3
27	8	2018	18	49	46	27	8	2018	6	20	19	3
28	8	2018	19	32	53	28	8	2018	7	5	27	3
29	8	2018	20	15	49	29	8	2018	7	50	19	3
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31	8	2018	21	45	0	31	8	2018	9	21	59	3
1	9	2018	22	32	43	1	9	2018	10	10	19	3
2	9	2018	23	23	29	2	9	2018	11	1	12	3
3	9	2018	**	44	48	3	9	2018	11	55	5	3
4	9	2018	0	17	45	4	9	2018	12	51	48	3
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7	9	2018	3	16	24	7	9	2018	15	51	1	3
8	9	2018	4	16	52	8	9	2018	16	49	5	3
9	9	2018	5	15	31	9	9	2018	17	44	38	3
10	9	2018	6	11	43	10	9	2018	18	37	24	3
11	9	2018	7	5	29	11	9	2018	19	28	7	3
12	9	2018	7	57	32	12	9	2018	20	17	20	3
13	9	2018	8	48	17	13	9	2018	21	5	41	3
14	9	2018	9	38	18	14	9	2018	21	53	45	3

TARIKH WAKTU TERBIT TARIKH WAKTU TERBENAM LATITUD

H	B	TAHUN	BULAN			H	B	TAHUN	BULAN			o
			j	m	s				j	m	s	
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16	9	2018	11	17	15	16	9	2018	23	30	8	3
17	9	2018	12	6	36	17	9	2018	**	44	48	3
18	9	2018	12	55	36	18	9	2018	0	18	49	3
19	9	2018	13	43	56	19	9	2018	1	7	30	3
20	9	2018	14	31	18	20	9	2018	1	55	50	3
21	9	2018	15	17	23	21	9	2018	2	43	31	3
22	9	2018	16	2	25	22	9	2018	3	30	12	3
23	9	2018	16	46	35	23	9	2018	4	16	20	3
24	9	2018	17	30	12	24	9	2018	5	1	55	3
25	9	2018	18	13	44	25	9	2018	5	47	17	3
26	9	2018	18	57	42	26	9	2018	6	32	54	3
27	9	2018	19	43	3	27	9	2018	7	19	23	3
28	9	2018	20	30	26	28	9	2018	8	7	38	3
29	9	2018	21	20	24	29	9	2018	8	58	2	3
30	9	2018	22	13	19	30	9	2018	9	50	59	3
1	10	2018	23	9	5	1	10	2018	10	46	27	3
2	10	2018	**	44	48	2	10	2018	11	43	47	3
3	10	2018	0	6	50	3	10	2018	12	42	8	3
4	10	2018	1	5	58	4	10	2018	13	40	23	3
5	10	2018	2	4	51	5	10	2018	14	37	16	3
6	10	2018	3	2	23	6	10	2018	15	32	7	3
7	10	2018	3	58	4	7	10	2018	16	24	49	3
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10	10	2018	6	35	24	10	10	2018	18	54	1	3
11	10	2018	7	26	15	11	10	2018	19	42	49	3
12	10	2018	8	16	55	12	10	2018	20	31	51	3
13	10	2018	9	7	27	13	10	2018	21	20	58	3
14	10	2018	9	57	46	14	10	2018	22	10	31	3

TARIKH			WAKTU TERBIT			TARIKH			WAKTU TERBENAM			LATITUD
H	B	TAHUN	BULAN			H	B	TAHUN	BULAN			o
			j	m	s				j	m	s	
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16	10	2018	11	37	1	16	10	2018	23	48	58	3
17	10	2018	12	25	5	17	10	2018	**	44	48	3
18	10	2018	13	11	49	18	10	2018	0	37	8	3
19	10	2018	13	57	4	19	10	2018	1	24	17	3
20	10	2018	14	41	17	20	10	2018	2	10	17	3
21	10	2018	15	24	56	21	10	2018	2	55	51	3
22	10	2018	16	8	29	22	10	2018	3	41	12	3
23	10	2018	16	52	37	23	10	2018	4	26	52	3
24	10	2018	17	38	3	24	10	2018	5	13	33	3
25	10	2018	18	25	19	25	10	2018	6	1	50	3
26	10	2018	19	15	22	26	10	2018	6	52	14	3
27	10	2018	20	8	26	27	10	2018	7	45	28	3
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29	10	2018	22	2	22	29	10	2018	9	39	6	3
30	10	2018	23	1	1	30	10	2018	10	37	39	3
31	10	2018	23	59	26	31	10	2018	11	35	38	3
32	10	2018	**	44	48	1	11	2018	12	32	8	3
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5	11	2018	3	35	7	5	11	2018	15	56	33	3
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7	11	2018	5	15	29	7	11	2018	17	32	42	3
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10	11	2018	7	47	29	10	11	2018	20	0	38	3
11	11	2018	8	38	13	11	11	2018	20	50	47	3
12	11	2018	9	28	30	12	11	2018	21	40	37	3
13	11	2018	10	17	36	13	11	2018	22	29	35	3
14	11	2018	11	5	9	14	11	2018	23	17	19	3

TARIKH			WAKTU TERBIT BULAN			TARIKH			WAKTU TERBENAM BULAN			LATITUD
H	B	TAHUN	j	m	s	H	B	TAHUN	j	m	s	o
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19	11	2018	14	44	50	19	11	2018	2	18	34	3
20	11	2018	15	29	18	20	11	2018	3	4	16	3
21	11	2018	16	15	50	21	11	2018	3	51	38	3
22	11	2018	17	5	3	22	11	2018	4	41	24	3
23	11	2018	17	57	48	23	11	2018	5	34	4	3
24	11	2018	18	54	9	24	11	2018	6	30	11	3
25	11	2018	19	53	18	25	11	2018	7	29	5	3
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27	11	2018	21	53	52	27	11	2018	9	29	38	3
28	11	2018	22	52	15	28	11	2018	10	27	51	3
29	11	2018	23	47	59	29	11	2018	11	23	24	3
30	11	2018	**	44	48	30	11	2018	12	15	54	3
31	11	2018	0	40	59	1	12	2018	13	5	45	3
2	12	2018	1	31	48	2	12	2018	13	53	43	3
3	12	2018	2	21	13	3	12	2018	14	40	34	3
4	12	2018	3	9	55	4	12	2018	15	27	20	3
5	12	2018	3	58	57	5	12	2018	16	14	44	3
6	12	2018	4	48	35	6	12	2018	17	3	5	3
7	12	2018	5	38	56	7	12	2018	17	52	26	3
8	12	2018	6	29	44	8	12	2018	18	42	31	3
9	12	2018	7	20	21	9	12	2018	19	32	30	3
10	12	2018	8	10	4	10	12	2018	20	22	6	3
11	12	2018	8	58	34	11	12	2018	21	10	36	3
12	12	2018	9	45	17	12	12	2018	21	57	38	3
13	12	2018	10	30	11	13	12	2018	22	43	13	3
14	12	2018	11	13	26	14	12	2018	23	27	27	3

TARIKH			WAKTU TERBIT BULAN			TARIKH			WAKTU TERBENAM BULAN			LATITUD
H	B	TAHUN	j	m	s	H	B	TAHUN	j	m	s	o
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18	12	2018	14	5	6	18	12	2018	1	40	58	3
19	12	2018	14	52	9	19	12	2018	2	28	28	3
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21	12	2018	16	37	13	21	12	2018	4	13	5	3

22	12	2018	17	35	58	22	12	2018	5	11	13	3
23	12	2018	18	37	41	23	12	2018	6	12	22	3
24	12	2018	19	40	26	24	12	2018	7	14	51	3
25	12	2018	20	42	5	25	12	2018	8	16	31	3
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29	12	2018	**	44	48	29	12	2018	11	52	7	3
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31	12	2018	1	8	14	31	12	2018	13	25	57	3
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27	12	2017	12	41	28	27	12	2017	0	14	52	4
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30	12	2017	15	14	38	30	12	2017	2	50	53	4
31	12	2017	16	13	12	31	12	2017	3	49	25	4
1	1	2018	17	15	15	32	12	2017	4	51	24	4
2	1	2018	18	19	0	2	1	2018	5	55	9	4
3	1	2018	19	22	14	3	1	2018	6	58	31	4
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6	1	2018	22	13	32	6	1	2018	9	49	14	4
7	1	2018	23	3	53	7	1	2018	10	38	35	4
8	1	2018	23	51	54	8	1	2018	11	25	9	4
9	1	2018	**	44	48	9	1	2018	12	9	56	4
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11	1	2018	1	24	30	11	1	2018	13	37	30	4
12	1	2018	2	10	19	12	1	2018	14	21	46	4
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TARIKH			WAKTU TERBIT			TARIKH			WAKTU TERBENAM			LATITUD
H	B	TAHUN	j	m	s	H	B	TAHUN	j	m	s	o
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19	1	2018	7	40	41	19	1	2018	19	52	18	4
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21	1	2018	9	10	8	21	1	2018	21	25	28	4
22	1	2018	9	54	5	22	1	2018	22	11	47	4
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27	1	2018	13	56	57	27	1	2018	1	34	28	4
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29	1	2018	15	56	24	29	1	2018	3	33	23	4
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31	1	2018	18	1	28	31	1	2018	5	37	46	4
1	2	2018	19	1	29	32	1	2018	6	37	27	4
2	2	2018	19	58	11	2	2	2018	7	33	39	4
3	2	2018	20	51	47	3	2	2018	8	26	10	4
4	2	2018	21	42	37	4	2	2018	9	15	42	4

5	2	2018	22	31	25	5	2	2018	10	2	49	4
6	2	2018	23	18	55	6	2	2018	10	48	25	4
7	2	2018	**	44	48	7	2	2018	11	33	19	4
8	2	2018	0	5	54	8	2	2018	12	18	3	4
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12	2	2018	3	15	25	12	2	2018	15	24	27	4
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TARIKH			WAKTU TERBIT			TARIKH			WAKTU TERBENAM			LATITUD
H	B	TAHUN	BULAN			H	B	TAHUN	BULAN			o
			j	m	s				j	m	s	
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22	2	2018	10	58	11	22	2	2018	23	28	12	4
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24	2	2018	12	44	54	24	2	2018	0	23	25	4
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26	2	2018	14	42	31	26	2	2018	2	20	38	4
27	2	2018	15	43	9	27	2	2018	3	20	47	4
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13	3	2018	2	44	45	13	3	2018	14	54	16	4
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TARIKH			WAKTU TERBIT			TARIKH			WAKTU TERBENAM			LATITUD
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			j	m	s				j	m	s	
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23	3	2018	10	40	28	23	3	2018	23	15	58	4
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25	3	2018	12	34	55	25	3	2018	0	14	14	4
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28	3	2018	15	28	46	28	3	2018	3	6	24	4
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31	3	2018	18	7	15	31	3	2018	5	40	4	4
1	4	2018	18	57	7	32	3	2018	6	27	48	4
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9	4	2018	0	37	44	9	4	2018	12	46	52	4
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13	4	2018	3	41	26	13	4	2018	15	56	53	4
14	4	2018	4	26	35	14	4	2018	16	44	51	4

TARIKH			WAKTU TERBIT			TARIKH			WAKTU TERBENAM			LATITUD
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21	4	2018	10	29	57	21	4	2018	23	8	16	4
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23	4	2018	12	27	3	23	4	2018	0	6	15	4
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TARIKH			WAKTU TERBIT			TARIKH			WAKTU TERBENAM			LATITUD
H	B	TAHUN	j	m	s	H	B	TAHUN	j	m	s	°
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21	5	2018	11	19	17	21	5	2018	23	52	57	4
22	5	2018	12	14	42	22	5	2018	**	44	48	4
23	5	2018	13	7	19	23	5	2018	0	44	29	4
24	5	2018	13	57	37	24	5	2018	1	33	11	4
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29	5	2018	17	58	16	29	5	2018	5	21	44	4
30	5	2018	18	47	16	30	5	2018	6	8	54	4
31	5	2018	19	36	13	31	5	2018	6	56	49	4
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3	6	2018	21	59	41	3	6	2018	9	21	53	4
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5	6	2018	23	29	24	5	6	2018	10	55	54	4
6	6	2018	**	44	48	6	6	2018	11	41	47	4
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12	6	2018	4	6	53	12	6	2018	16	40	15	4
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TARIKH			WAKTU TERBIT			TARIKH			WAKTU TERBENAM			LATITUD
H	B	TAHUN	j	m	s	H	B	TAHUN	j	m	s	°
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16	6	2018	8	8	10	16	6	2018	20	47	3	4
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18	6	2018	10	7	48	18	6	2018	22	39	51	4
19	6	2018	11	2	53	19	6	2018	23	30	45	4
20	6	2018	11	54	53	20	6	2018	**	44	48	4
21	6	2018	12	44	29	21	6	2018	0	18	38	4
22	6	2018	13	32	34	22	6	2018	1	4	34	4
23	6	2018	14	19	50	23	6	2018	1	49	30	4
24	6	2018	15	7	7	24	6	2018	2	34	6	4
25	6	2018	15	54	56	25	6	2018	3	19	27	4
26	6	2018	16	43	19	26	6	2018	4	5	44	4
27	6	2018	17	32	7	27	6	2018	4	53	1	4
28	6	2018	18	20	43	28	6	2018	5	41	6	4
29	6	2018	19	8	58	29	6	2018	6	29	25	4
30	6	2018	19	56	13	30	6	2018	7	17	48	4
1	7	2018	20	42	8	1	7	2018	8	5	33	4
2	7	2018	21	26	39	2	7	2018	8	52	23	4

3	7	2018	22	10	2	3	7	2018	9	38	18	4
4	7	2018	22	52	33	4	7	2018	10	23	29	4
5	7	2018	23	35	23	5	7	2018	11	8	34	4
6	7	2018	**	44	48	6	7	2018	11	54	25	4
7	7	2018	0	19	11	7	7	2018	12	41	48	4
8	7	2018	1	5	2	8	7	2018	13	31	37	4
9	7	2018	1	53	55	9	7	2018	14	24	44	4
10	7	2018	2	46	41	10	7	2018	15	21	27	4
11	7	2018	3	43	32	11	7	2018	16	21	50	4
12	7	2018	4	44	30	12	7	2018	17	24	46	4
13	7	2018	5	47	54	13	7	2018	18	28	7	4
14	7	2018	6	51	32	14	7	2018	19	29	44	4

TARIKH			WAKTU TERBIT BULAN			TARIKH			WAKTU TERBENAM BULAN			LATITUD
H	B	TAHUN	j	m	s	H	B	TAHUN	j	m	s	o
15	7	2018	7	53	15	15	7	2018	20	27	49	4
16	7	2018	8	51	44	16	7	2018	21	22	11	4
17	7	2018	9	46	55	17	7	2018	22	13	1	4
18	7	2018	10	39	1	18	7	2018	23	1	4	4
19	7	2018	11	28	50	19	7	2018	23	47	19	4
20	7	2018	12	17	14	20	7	2018	**	44	48	4
21	7	2018	13	4	52	21	7	2018	0	32	40	4
22	7	2018	13	52	31	22	7	2018	1	17	47	4
23	7	2018	14	40	35	23	7	2018	2	3	43	4
24	7	2018	15	29	3	24	7	2018	2	50	30	4
25	7	2018	16	17	40	25	7	2018	3	38	10	4
26	7	2018	17	6	2	26	7	2018	4	26	25	4
27	7	2018	17	53	26	27	7	2018	5	14	46	4
28	7	2018	18	39	48	28	7	2018	6	2	35	4
29	7	2018	19	24	55	29	7	2018	6	49	49	4
30	7	2018	20	8	44	30	7	2018	7	36	9	4
31	7	2018	20	51	34	31	7	2018	8	21	38	4
1	8	2018	21	33	49	1	8	2018	9	6	33	4
2	8	2018	22	16	35	2	8	2018	9	51	30	4
3	8	2018	23	0	35	3	8	2018	10	37	25	4
4	8	2018	23	46	44	4	8	2018	11	25	0	4
5	8	2018	**	44	48	5	8	2018	12	15	7	4
6	8	2018	0	36	2	6	8	2018	13	8	30	4
7	8	2018	1	29	18	7	8	2018	14	5	17	4
8	8	2018	2	26	26	8	8	2018	15	5	18	4
9	8	2018	3	27	20	9	8	2018	16	7	22	4
10	8	2018	4	30	14	10	8	2018	17	9	30	4
11	8	2018	5	33	6	11	8	2018	18	9	50	4
12	8	2018	6	34	4	12	8	2018	19	6	56	4
13	8	2018	7	32	2	13	8	2018	20	0	46	4
14	8	2018	8	27	7	14	8	2018	20	51	37	4

TARIKH			WAKTU TERBIT BULAN			TARIKH			WAKTU TERBENAM BULAN			LATITUD
H	B	TAHUN	j	m	s	H	B	TAHUN	j	m	s	o
15	8	2018	9	19	34	15	8	2018	21	40	10	4
16	8	2018	10	10	5	16	8	2018	22	27	16	4
17	8	2018	10	59	24	17	8	2018	23	13	46	4
18	8	2018	11	48	2	18	8	2018	**	44	48	4
19	8	2018	12	36	33	19	8	2018	0	0	0	4

20	8	2018	13	25	15	20	8	2018	0	47	0	4
21	8	2018	14	13	59	21	8	2018	1	34	38	4
22	8	2018	15	2	28	22	8	2018	2	22	48	4
23	8	2018	15	50	18	23	8	2018	3	11	10	4
24	8	2018	16	36	59	24	8	2018	3	59	18	4
25	8	2018	17	22	33	25	8	2018	4	46	42	4
26	8	2018	18	6	59	26	8	2018	5	33	31	4
27	8	2018	18	50	26	27	8	2018	6	19	31	4
28	8	2018	19	33	15	28	8	2018	7	4	56	4
29	8	2018	20	15	51	29	8	2018	7	50	7	4
30	8	2018	20	59	20	30	8	2018	8	35	39	4
31	8	2018	21	44	23	31	8	2018	9	22	27	4
1	9	2018	22	31	46	1	9	2018	10	11	7	4
2	9	2018	23	22	16	2	9	2018	11	2	18	4
3	9	2018	**	44	48	3	9	2018	11	56	26	4
4	9	2018	0	16	18	4	9	2018	12	53	19	4
5	9	2018	1	13	36	5	9	2018	13	52	28	4
6	9	2018	2	13	43	6	9	2018	14	52	43	4
7	9	2018	3	14	57	7	9	2018	15	52	23	4
8	9	2018	4	15	39	8	9	2018	16	50	10	4
9	9	2018	5	14	37	9	9	2018	17	45	22	4
10	9	2018	6	11	11	10	9	2018	18	37	46	4
11	9	2018	7	5	19	11	9	2018	19	28	5	4
12	9	2018	7	57	45	12	9	2018	20	16	56	4
13	9	2018	8	48	52	13	9	2018	21	4	56	4
14	9	2018	9	39	13	14	9	2018	21	52	42	4

TARIKH			WAKTU TERBIT			TARIKH			WAKTU TERBENAM			LATITUD
H	B	TAHUN	j	m	s	H	B	TAHUN	j	m	s	o
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16	9	2018	11	18	38	16	9	2018	23	28	40	4
17	9	2018	12	8	8	17	9	2018	**	44	48	4
18	9	2018	12	57	11	18	9	2018	0	17	15	4
19	9	2018	13	45	29	19	9	2018	1	5	55	4
20	9	2018	14	32	45	20	9	2018	1	54	19	4
21	9	2018	15	18	40	21	9	2018	2	42	9	4
22	9	2018	16	3	28	22	9	2018	3	29	3	4
23	9	2018	16	47	21	23	9	2018	4	15	26	4
24	9	2018	17	30	39	24	9	2018	5	1	18	4
25	9	2018	18	13	52	25	9	2018	5	47	0	4
26	9	2018	18	57	30	26	9	2018	6	32	56	4
27	9	2018	19	42	31	27	9	2018	7	19	46	4
28	9	2018	20	29	34	28	9	2018	8	8	20	4
29	9	2018	21	19	14	29	9	2018	8	59	4	4
30	9	2018	22	11	55	30	9	2018	9	52	16	4
1	10	2018	23	7	32	1	10	2018	10	47	56	4
2	10	2018	**	44	48	2	10	2018	11	45	23	4
3	10	2018	0	5	14	3	10	2018	12	43	43	4
4	10	2018	1	4	26	4	10	2018	13	41	50	4
5	10	2018	2	3	30	5	10	2018	14	38	29	4
6	10	2018	3	1	19	6	10	2018	15	33	1	4
7	10	2018	3	57	21	7	10	2018	16	25	21	4
8	10	2018	4	51	32	8	10	2018	17	15	41	4
9	10	2018	5	44	5	9	10	2018	18	4	50	4
10	10	2018	6	35	49	10	10	2018	18	53	25	4

11	10	2018	7	27	1	11	10	2018	19	41	54	4
12	10	2018	8	18	0	12	10	2018	20	30	39	4
13	10	2018	9	8	46	13	10	2018	21	19	33	4
14	10	2018	9	59	16	14	10	2018	22	8	57	4

TARIKH			WAKTU TERBIT BULAN			TARIKH			WAKTU TERBENAM BULAN			LATITUD
H	B	TAHUN	j	m	s	H	B	TAHUN	j	m	s	o
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16	10	2018	11	38	37	16	10	2018	23	47	24	4
17	10	2018	12	26	37	17	10	2018	**	44	48	4
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19	10	2018	13	58	14	19	10	2018	1	23	1	4
20	10	2018	14	42	11	20	10	2018	2	9	16	4
21	10	2018	15	25	32	21	10	2018	2	55	7	4
22	10	2018	16	8	45	22	10	2018	3	40	46	4
23	10	2018	16	52	32	23	10	2018	4	26	47	4
24	10	2018	17	37	37	24	10	2018	5	13	48	4
25	10	2018	18	24	33	25	10	2018	6	2	26	4
26	10	2018	19	14	18	26	10	2018	6	53	9	4
27	10	2018	20	7	5	27	10	2018	7	46	42	4
28	10	2018	21	2	47	28	10	2018	8	42	45	4
29	10	2018	22	0	44	29	10	2018	9	40	42	4
30	10	2018	22	59	25	30	10	2018	10	39	16	4
31	10	2018	23	58	0	31	10	2018	11	37	10	4
32	10	2018	**	44	48	1	11	2018	12	33	27	4
2	11	2018	0	55	7	2	11	2018	13	27	21	4
3	11	2018	1	50	12	3	11	2018	14	18	51	4
4	11	2018	2	43	21	4	11	2018	15	8	24	4
5	11	2018	3	35	0	5	11	2018	15	56	29	4
6	11	2018	4	25	35	6	11	2018	16	44	7	4
7	11	2018	5	16	6	7	11	2018	17	31	56	4
8	11	2018	6	6	47	8	11	2018	18	20	19	4
9	11	2018	6	57	47	9	11	2018	19	9	30	4
10	11	2018	7	48	56	10	11	2018	19	59	6	4
11	11	2018	8	39	48	11	11	2018	20	49	10	4
12	11	2018	9	30	8	12	11	2018	21	39	0	4
13	11	2018	10	19	11	13	11	2018	22	28	3	4
14	11	2018	11	6	37	14	11	2018	23	15	56	4

TARIKH			WAKTU TERBIT BULAN			TARIKH			WAKTU TERBENAM BULAN			LATITUD
H	B	TAHUN	j	m	s	H	B	TAHUN	j	m	s	o
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16	11	2018	12	36	21	16	11	2018	0	2	38	4
17	11	2018	13	19	20	17	11	2018	0	48	2	4
18	11	2018	14	1	58	18	11	2018	1	33	7	4
19	11	2018	14	44	56	19	11	2018	2	18	19	4
20	11	2018	15	29	3	20	11	2018	3	4	21	4
21	11	2018	16	15	13	21	11	2018	3	52	4	4
22	11	2018	17	4	5	22	11	2018	4	42	11	4
23	11	2018	17	56	33	23	11	2018	5	35	11	4
24	11	2018	18	52	40	24	11	2018	6	31	34	4
25	11	2018	19	51	40	25	11	2018	7	30	40	4
26	11	2018	20	52	14	26	11	2018	8	31	9	4
27	11	2018	21	52	21	27	11	2018	9	31	13	4

28	11	2018	22	50	57	28	11	2018	10	29	16	4
29	11	2018	23	47	0	29	11	2018	11	24	32	4
30	11	2018	**	44	48	30	11	2018	12	16	42	4
31	11	2018	0	40	22	1	12	2018	13	6	12	4
2	12	2018	1	31	32	2	12	2018	13	53	48	4
3	12	2018	2	21	20	3	12	2018	14	40	17	4
4	12	2018	3	10	23	4	12	2018	15	26	41	4
5	12	2018	3	59	46	5	12	2018	16	13	46	4
6	12	2018	4	49	42	6	12	2018	17	1	50	4
7	12	2018	5	40	18	7	12	2018	17	50	58	4
8	12	2018	6	31	16	8	12	2018	18	40	55	4
9	12	2018	7	21	59	9	12	2018	19	30	51	4
10	12	2018	8	11	42	10	12	2018	20	20	30	4
11	12	2018	9	0	6	11	12	2018	21	9	8	4
12	12	2018	9	46	39	12	12	2018	21	56	22	4
13	12	2018	10	31	20	13	12	2018	22	42	12	4
14	12	2018	11	14	19	14	12	2018	23	26	43	4

TARIKH			WAKTU TERBIT			TARIKH			WAKTU TERBENAM			LATITUD
H	B	TAHUN	j	m	s	H	B	TAHUN	j	m	s	o
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16	12	2018	12	38	8	16	12	2018	0	10	59	4
17	12	2018	13	20	35	17	12	2018	0	55	30	4
18	12	2018	14	4	40	18	12	2018	1	41	13	4
19	12	2018	14	51	23	19	12	2018	2	29	5	4
20	12	2018	15	41	29	20	12	2018	3	19	57	4
21	12	2018	16	35	50	21	12	2018	4	14	21	4
22	12	2018	17	34	23	22	12	2018	5	12	43	4
23	12	2018	18	36	1	23	12	2018	6	14	0	4
24	12	2018	19	38	50	24	12	2018	7	16	30	4
25	12	2018	20	40	41	25	12	2018	8	18	1	4
26	12	2018	21	39	43	26	12	2018	9	16	42	4
27	12	2018	22	35	43	27	12	2018	10	11	44	4
28	12	2018	23	28	41	28	12	2018	11	3	26	4
29	12	2018	**	44	48	29	12	2018	11	52	19	4
30	12	2018	0	19	22	30	12	2018	12	39	21	4
31	12	2018	1	8	36	31	12	2018	13	25	25	4
32	12	2018	1	57	8	1	1	2019	14	11	33	4
2	1	2019	2	46	5	2	1	2019	14	58	28	4
27	12	2017	12	41	20	27	12	2017	0	14	51	5
28	12	2017	13	28	49	28	12	2017	1	4	22	5
29	12	2017	14	19	20	29	12	2017	1	56	28	5
30	12	2017	15	13	31	30	12	2017	2	51	52	5
31	12	2017	16	11	50	31	12	2017	3	50	41	5
1	1	2018	17	13	44	32	12	2017	4	52	52	5
2	1	2018	18	17	29	2	1	2018	5	56	41	5
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4	1	2018	20	21	51	4	1	2018	8	0	42	5
5	1	2018	21	19	9	5	1	2018	8	57	25	5
6	1	2018	22	12	59	6	1	2018	9	49	57	5
7	1	2018	23	3	40	7	1	2018	10	38	58	5
8	1	2018	23	52	2	8	1	2018	11	25	12	5
9	1	2018	**	44	48	9	1	2018	12	9	38	5
10	1	2018	0	38	58	10	1	2018	12	53	13	5
11	1	2018	1	25	14	11	1	2018	13	36	37	5

12	1	2018	2	11	20	12	1	2018	14	20	38	5
13	1	2018	2	58	7	13	1	2018	15	5	47	5
14	1	2018	3	45	31	14	1	2018	15	52	6	5

TARIKH			WAKTU TERBIT			TARIKH			WAKTU TERBENAM			LATITUD
			BULAN						BULAN			
H	B	TAHUN	j	m	s	H	B	TAHUN	j	m	s	o
15	1	2018	4	33	25	15	1	2018	16	39	28	5
16	1	2018	5	21	24	16	1	2018	17	27	21	5
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18	1	2018	6	55	53	18	1	2018	19	3	41	5
19	1	2018	7	41	49	19	1	2018	19	51	16	5
20	1	2018	8	26	42	20	1	2018	20	38	17	5
21	1	2018	9	10	45	21	1	2018	21	24	59	5
22	1	2018	9	54	23	22	1	2018	22	11	38	5
23	1	2018	10	38	21	23	1	2018	22	59	19	5
24	1	2018	11	23	40	24	1	2018	23	48	38	5
25	1	2018	12	11	7	25	1	2018	**	44	48	5
26	1	2018	13	1	37	26	1	2018	0	40	33	5
27	1	2018	13	55	42	27	1	2018	1	35	37	5
28	1	2018	14	53	39	28	1	2018	2	33	45	5
29	1	2018	15	54	52	29	1	2018	3	34	53	5
30	1	2018	16	57	42	30	1	2018	4	37	21	5
31	1	2018	18	0	9	31	1	2018	5	39	10	5
1	2	2018	19	0	26	32	1	2018	6	38	39	5
2	2	2018	19	57	27	2	2	2018	7	34	33	5
3	2	2018	20	51	24	3	2	2018	8	26	43	5
4	2	2018	21	42	35	4	2	2018	9	15	54	5
5	2	2018	22	31	43	5	2	2018	10	2	41	5
6	2	2018	23	19	33	6	2	2018	10	47	57	5
7	2	2018	**	44	48	7	2	2018	11	32	32	5
8	2	2018	0	6	48	8	2	2018	12	17	1	5
9	2	2018	0	53	43	9	2	2018	13	2	4	5
10	2	2018	1	41	9	10	2	2018	13	48	7	5
11	2	2018	2	28	57	11	2	2018	14	35	7	5
12	2	2018	3	16	56	12	2	2018	15	22	56	5
13	2	2018	4	4	45	13	2	2018	16	11	3	5
14	2	2018	4	51	55	14	2	2018	16	59	20	5

TARIKH			WAKTU TERBIT			TARIKH			WAKTU TERBENAM			LATITUD
			BULAN						BULAN			
H	B	TAHUN	j	m	s	H	B	TAHUN	j	m	s	o
15	2	2018	5	38	31	15	2	2018	17	47	29	5
16	2	2018	6	24	11	16	2	2018	18	35	13	5
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18	2	2018	7	53	18	18	2	2018	20	9	53	5
19	2	2018	8	37	30	19	2	2018	20	57	22	5
20	2	2018	9	22	18	20	2	2018	21	46	5	5
21	2	2018	10	8	41	21	2	2018	22	36	30	5
22	2	2018	10	57	17	22	2	2018	23	29	14	5
23	2	2018	11	48	47	23	2	2018	**	44	48	5
24	2	2018	12	43	31	24	2	2018	0	24	43	5
25	2	2018	13	41	9	25	2	2018	1	22	42	5
26	2	2018	14	41	0	26	2	2018	2	22	10	5
27	2	2018	15	41	45	27	2	2018	3	22	15	5
28	2	2018	16	41	45	28	2	2018	4	21	13	5

1	3	2018	17	39	51	29	2	2018	5	17	52	5
2	3	2018	18	35	18	2	3	2018	6	11	36	5
3	3	2018	19	28	22	3	3	2018	7	2	28	5
4	3	2018	20	19	30	4	3	2018	7	51	6	5
5	3	2018	21	9	9	5	3	2018	8	38	4	5
6	3	2018	21	57	54	6	3	2018	9	24	6	5
7	3	2018	22	46	14	7	3	2018	10	9	48	5
8	3	2018	23	34	11	8	3	2018	10	55	34	5
9	3	2018	**	44	48	9	3	2018	11	41	50	5
10	3	2018	0	22	27	10	3	2018	12	28	55	5
11	3	2018	1	10	41	11	3	2018	13	16	37	5
12	3	2018	1	58	41	12	3	2018	14	4	45	5
13	3	2018	2	46	11	13	3	2018	14	52	53	5
14	3	2018	3	32	48	14	3	2018	15	41	2	5

TARIKH			WAKTU TERBIT			TARIKH			WAKTU TERBENAM			LATITUD
H	B	TAHUN	j	m	s	H	B	TAHUN	j	m	s	o
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16	3	2018	5	4	12	16	3	2018	17	16	55	5
17	3	2018	5	49	7	17	3	2018	18	4	50	5
18	3	2018	6	34	0	18	3	2018	18	53	10	5
19	3	2018	7	19	23	19	3	2018	19	42	15	5
20	3	2018	8	5	54	20	3	2018	20	32	57	5
21	3	2018	8	54	27	21	3	2018	21	25	37	5
22	3	2018	9	45	26	22	3	2018	22	20	29	5
23	3	2018	10	39	7	23	3	2018	23	17	24	5
24	3	2018	11	35	23	24	3	2018	**	44	48	5
25	3	2018	12	33	23	25	3	2018	0	15	46	5
26	3	2018	13	32	11	26	3	2018	1	14	9	5
27	3	2018	14	30	40	27	3	2018	2	11	50	5
28	3	2018	15	27	44	28	3	2018	3	7	34	5
29	3	2018	16	22	52	29	3	2018	4	0	51	5
30	3	2018	17	15	51	30	3	2018	4	51	39	5
31	3	2018	18	7	15	31	3	2018	5	40	15	5
1	4	2018	18	57	27	32	3	2018	6	27	38	5
2	4	2018	19	46	58	2	4	2018	7	14	9	5
3	4	2018	20	36	9	3	4	2018	8	0	25	5
4	4	2018	21	25	15	4	4	2018	8	46	52	5
5	4	2018	22	14	2	5	4	2018	9	33	41	5
6	4	2018	23	2	54	6	4	2018	10	21	1	5
7	4	2018	23	51	24	7	4	2018	11	8	58	5
8	4	2018	**	44	48	8	4	2018	11	57	11	5
9	4	2018	0	39	14	9	4	2018	12	45	25	5
10	4	2018	1	26	12	10	4	2018	13	33	28	5
11	4	2018	2	12	14	11	4	2018	14	21	6	5
12	4	2018	2	57	17	12	4	2018	15	8	37	5
13	4	2018	3	42	5	13	4	2018	15	56	22	5
14	4	2018	4	26	56	14	4	2018	16	44	40	5

TARIKH			WAKTU TERBIT			TARIKH			WAKTU TERBENAM			LATITUD
H	B	TAHUN	j	m	s	H	B	TAHUN	j	m	s	o
15	4	2018	5	12	24	15	4	2018	17	34	3	5
16	4	2018	5	59	6	16	4	2018	18	24	54	5
17	4	2018	6	47	41	17	4	2018	19	18	1	5



18	4	2018	7	39	0	18	4	2018	20	13	34	5
19	4	2018	8	33	7	19	4	2018	21	11	18	5
20	4	2018	9	29	51	20	4	2018	22	10	28	5
21	4	2018	10	28	24	21	4	2018	23	9	50	5
22	4	2018	11	27	24	22	4	2018	**	44	48	5
23	4	2018	12	25	41	23	4	2018	0	7	43	5
24	4	2018	13	22	24	24	4	2018	1	3	32	5
25	4	2018	14	16	57	25	4	2018	1	56	33	5
26	4	2018	15	9	23	26	4	2018	2	46	52	5
27	4	2018	15	59	57	27	4	2018	3	34	57	5
28	4	2018	16	49	27	28	4	2018	4	21	22	5
29	4	2018	17	38	28	29	4	2018	5	7	11	5
30	4	2018	18	27	23	30	4	2018	5	52	53	5
1	5	2018	19	16	26	31	4	2018	6	39	1	5
2	5	2018	20	5	45	2	5	2018	7	25	48	5
3	5	2018	20	54	54	3	5	2018	8	13	16	5
4	5	2018	21	43	58	4	5	2018	9	1	15	5
5	5	2018	22	32	22	5	5	2018	9	49	43	5
6	5	2018	23	19	45	6	5	2018	10	38	8	5
7	5	2018	**	44	48	7	5	2018	11	26	9	5
8	5	2018	0	5	53	8	5	2018	12	13	40	5
9	5	2018	0	50	57	9	5	2018	13	0	37	5
10	5	2018	1	35	0	10	5	2018	13	47	27	5
11	5	2018	2	19	2	11	5	2018	14	34	45	5
12	5	2018	3	3	31	12	5	2018	15	23	3	5
13	5	2018	3	49	12	13	5	2018	16	13	3	5
14	5	2018	4	36	55	14	5	2018	17	5	19	5

TARIKH			WAKTU TERBIT			TARIKH			WAKTU TERBENAM			LATITUD
H	B	TAHUN	j	m	s	H	B	TAHUN	j	m	s	o
15	5	2018	5	27	19	15	5	2018	18	0	34	5
16	5	2018	6	21	16	16	5	2018	18	58	50	5
17	5	2018	7	18	33	17	5	2018	19	59	23	5
18	5	2018	8	18	25	18	5	2018	21	0	50	5
19	5	2018	9	19	26	19	5	2018	22	1	25	5
20	5	2018	10	19	46	20	5	2018	22	59	17	5
21	5	2018	11	18	3	21	5	2018	23	54	3	5
22	5	2018	12	13	45	22	5	2018	**	44	48	5
23	5	2018	13	6	41	23	5	2018	0	45	16	5
24	5	2018	13	57	20	24	5	2018	1	33	37	5
25	5	2018	14	46	25	25	5	2018	2	19	56	5
26	5	2018	15	34	28	26	5	2018	3	5	1	5
27	5	2018	16	22	26	27	5	2018	3	49	34	5
28	5	2018	17	10	44	28	5	2018	4	34	40	5
29	5	2018	17	59	32	29	5	2018	5	20	35	5
30	5	2018	18	48	42	30	5	2018	6	7	32	5
31	5	2018	19	37	46	31	5	2018	6	55	18	5
1	6	2018	20	26	32	32	5	2018	7	43	34	5
2	6	2018	21	14	27	2	6	2018	8	32	9	5
3	6	2018	22	1	5	3	6	2018	9	20	25	5
4	6	2018	22	46	19	4	6	2018	10	8	0	5
5	6	2018	23	30	21	5	6	2018	10	54	50	5
6	6	2018	**	44	48	6	6	2018	11	40	58	5
7	6	2018	0	13	19	7	6	2018	12	27	0	5
8	6	2018	0	56	29	8	6	2018	13	13	40	5

9	6	2018	1	40	24	9	6	2018	14	1	39	5
10	6	2018	2	26	0	10	6	2018	14	51	50	5
11	6	2018	3	14	15	11	6	2018	15	44	51	5
12	6	2018	4	5	51	12	6	2018	16	41	26	5
13	6	2018	5	1	42	13	6	2018	17	41	31	5
14	6	2018	6	1	22	14	6	2018	18	44	0	5

TARIKH			WAKTU TERBIT			TARIKH			WAKTU TERBENAM			LATITUD
			BULAN						BULAN			
H	B	TAHUN	j	m	s	H	B	TAHUN	j	m	s	o
15	6	2018	7	3	39	15	6	2018	19	47	3	5
16	6	2018	8	6	38	16	6	2018	20	48	30	5
17	6	2018	9	8	8	17	6	2018	21	46	29	5
18	6	2018	10	6	44	18	6	2018	22	40	46	5
19	6	2018	11	2	9	19	6	2018	23	31	20	5
20	6	2018	11	54	29	20	6	2018	**	44	48	5
21	6	2018	12	44	26	21	6	2018	0	18	51	5
22	6	2018	13	32	52	22	6	2018	1	4	25	5
23	6	2018	14	20	28	23	6	2018	1	49	2	5
24	6	2018	15	8	3	24	6	2018	2	33	19	5
25	6	2018	15	56	7	25	6	2018	3	18	23	5
26	6	2018	16	44	42	26	6	2018	4	4	25	5
27	6	2018	17	33	38	27	6	2018	4	51	33	5
28	6	2018	18	22	18	28	6	2018	5	39	32	5
29	6	2018	19	10	31	29	6	2018	6	27	51	5
30	6	2018	19	57	40	30	6	2018	7	16	17	5
1	7	2018	20	43	24	1	7	2018	8	4	11	5
2	7	2018	21	27	41	2	7	2018	8	51	13	5
3	7	2018	22	10	48	3	7	2018	9	37	23	5
4	7	2018	22	53	2	4	7	2018	10	22	52	5
5	7	2018	23	35	33	5	7	2018	11	8	15	5
6	7	2018	**	44	48	6	7	2018	11	54	26	5
7	7	2018	0	18	59	7	7	2018	12	42	9	5
8	7	2018	1	4	30	8	7	2018	13	32	19	5
9	7	2018	1	53	3	9	7	2018	14	25	45	5
10	7	2018	2	45	30	10	7	2018	15	22	45	5
11	7	2018	3	42	7	11	7	2018	16	23	21	5
12	7	2018	4	42	56	12	7	2018	17	26	21	5
13	7	2018	5	46	19	13	7	2018	18	29	40	5
14	7	2018	6	50	5	14	7	2018	19	31	5	5

TARIKH			WAKTU TERBIT			TARIKH			WAKTU TERBENAM			LATITUD
			BULAN						BULAN			
H	B	TAHUN	j	m	s	H	B	TAHUN	j	m	s	o
15	7	2018	7	52	2	15	7	2018	20	28	53	5
16	7	2018	8	50	50	16	7	2018	21	22	55	5
17	7	2018	9	46	22	17	7	2018	22	13	23	5
18	7	2018	10	38	50	18	7	2018	23	1	4	5
19	7	2018	11	29	1	19	7	2018	23	46	58	5
20	7	2018	12	17	46	20	7	2018	**	44	48	5
21	7	2018	13	5	42	21	7	2018	0	31	59	5
22	7	2018	13	53	37	22	7	2018	1	16	49	5
23	7	2018	14	41	55	23	7	2018	2	2	29	5
24	7	2018	15	30	32	24	7	2018	2	49	5	5
25	7	2018	16	19	14	25	7	2018	3	36	37	5
26	7	2018	17	7	36	26	7	2018	4	24	50	5

27	7	2018	17	54	55	27	7	2018	5	13	13	5
28	7	2018	18	41	8	28	7	2018	6	1	10	5
29	7	2018	19	26	3	29	7	2018	6	48	35	5
30	7	2018	20	9	36	30	7	2018	7	35	9	5
31	7	2018	20	52	9	31	7	2018	8	20	55	5
1	8	2018	21	34	5	1	8	2018	9	6	8	5
2	8	2018	22	16	31	2	8	2018	9	51	24	5
3	8	2018	23	0	11	3	8	2018	10	37	39	5
4	8	2018	23	46	0	4	8	2018	11	25	34	5
5	8	2018	**	44	48	5	8	2018	12	16	1	5
6	8	2018	0	34	59	6	8	2018	13	9	41	5
7	8	2018	1	27	59	7	8	2018	14	6	42	5
8	8	2018	2	24	56	8	8	2018	15	6	51	5
9	8	2018	3	25	45	9	8	2018	16	8	57	5
10	8	2018	4	28	42	10	8	2018	17	10	58	5
11	8	2018	5	31	45	11	8	2018	18	11	4	5
12	8	2018	6	32	59	12	8	2018	19	7	50	5
13	8	2018	7	31	18	13	8	2018	20	1	19	5
14	8	2018	8	26	46	14	8	2018	20	51	47	5

TARIKH			WAKTU TERBIT			TARIKH			WAKTU TERBENAM			LATITUD
H	B	TAHUN	j	m	s	H	B	TAHUN	j	m	s	o
15	8	2018	9	19	36	15	8	2018	21	39	57	5
16	8	2018	10	10	28	16	8	2018	22	26	43	5
17	8	2018	11	0	7	17	8	2018	23	12	54	5
18	8	2018	11	49	3	18	8	2018	23	58	53	5
19	8	2018	12	37	48	19	8	2018	**	44	48	5
20	8	2018	13	26	42	20	8	2018	0	45	38	5
21	8	2018	14	15	32	21	8	2018	1	33	8	5
22	8	2018	15	4	2	22	8	2018	2	21	13	5
23	8	2018	15	51	50	23	8	2018	3	9	36	5
24	8	2018	16	38	23	24	8	2018	3	57	50	5
25	8	2018	17	23	45	25	8	2018	4	45	24	5
26	8	2018	18	7	56	26	8	2018	5	32	27	5
27	8	2018	18	51	6	27	8	2018	6	18	42	5
28	8	2018	19	33	36	28	8	2018	7	4	26	5
29	8	2018	20	15	52	29	8	2018	7	49	56	5
30	8	2018	20	59	2	30	8	2018	8	35	47	5
31	8	2018	21	43	45	31	8	2018	9	22	56	5
1	9	2018	22	30	50	1	9	2018	10	11	55	5
2	9	2018	23	21	2	2	9	2018	11	3	24	5
3	9	2018	**	44	48	3	9	2018	11	57	47	5
4	9	2018	0	14	51	4	9	2018	12	54	51	5
5	9	2018	1	12	1	5	9	2018	13	54	4	5
6	9	2018	2	12	9	6	9	2018	14	54	15	5
7	9	2018	3	13	29	7	9	2018	15	53	44	5
8	9	2018	4	14	26	8	9	2018	16	51	14	5
9	9	2018	5	13	42	9	9	2018	17	46	6	5
10	9	2018	6	10	39	10	9	2018	18	38	7	5
11	9	2018	7	5	10	11	9	2018	19	28	3	5
12	9	2018	7	57	59	12	9	2018	20	16	32	5
13	9	2018	8	49	27	13	9	2018	21	4	12	5
14	9	2018	9	40	7	14	9	2018	21	51	40	5

TARIKH WAKTU TERBIT TARIKH WAKTU TERBENAM LATITUD

			BULAN						BULAN			
H	B	TAHUN	j	m	s	H	B	TAHUN	j	m	s	o
15	9	2018	10	30	14	15	9	2018	22	39	6	5
16	9	2018	11	20	2	16	9	2018	23	27	11	5
17	9	2018	12	9	40	17	9	2018	**	44	48	5
18	9	2018	12	58	47	18	9	2018	0	15	40	5
19	9	2018	13	47	3	19	9	2018	1	4	20	5
20	9	2018	14	34	13	20	9	2018	1	52	48	5
21	9	2018	15	19	57	21	9	2018	2	40	46	5
22	9	2018	16	4	30	22	9	2018	3	27	53	5
23	9	2018	16	48	7	23	9	2018	4	14	32	5
24	9	2018	17	31	7	24	9	2018	5	0	41	5
25	9	2018	18	14	0	25	9	2018	5	46	42	5
26	9	2018	18	57	18	26	9	2018	6	32	59	5
27	9	2018	19	41	58	27	9	2018	7	20	8	5
28	9	2018	20	28	42	28	9	2018	8	9	3	5
29	9	2018	21	18	5	29	9	2018	9	0	5	5
30	9	2018	22	10	31	30	9	2018	9	53	34	5
1	10	2018	23	5	59	1	10	2018	10	49	26	5
2	10	2018	**	44	48	2	10	2018	11	46	59	5
3	10	2018	0	3	37	3	10	2018	12	45	18	5
4	10	2018	1	2	54	4	10	2018	13	43	17	5
5	10	2018	2	2	10	5	10	2018	14	39	42	5
6	10	2018	3	0	16	6	10	2018	15	33	55	5
7	10	2018	3	56	38	7	10	2018	16	25	54	5
8	10	2018	4	51	11	8	10	2018	17	15	51	5
9	10	2018	5	44	7	9	10	2018	18	4	37	5
10	10	2018	6	36	14	10	10	2018	18	52	50	5
11	10	2018	7	27	47	11	10	2018	19	40	59	5
12	10	2018	8	19	4	12	10	2018	20	29	27	5
13	10	2018	9	10	6	13	10	2018	21	18	8	5
14	10	2018	10	0	46	14	10	2018	22	7	24	5

TARIKH			WAKTU TERBIT			TARIKH			WAKTU TERBENAM			LATITUD
			BULAN						BULAN			
H	B	TAHUN	j	m	s	H	B	TAHUN	j	m	s	o
15	10	2018	10	51	0	15	10	2018	22	56	46	5
16	10	2018	11	40	14	16	10	2018	23	45	49	5
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18	10	2018	13	14	33	18	10	2018	0	34	14	5
19	10	2018	13	59	23	19	10	2018	1	21	45	5
20	10	2018	14	43	5	20	10	2018	2	8	14	5
21	10	2018	15	26	7	21	10	2018	2	54	22	5
22	10	2018	16	9	1	22	10	2018	3	40	20	5
23	10	2018	16	52	27	23	10	2018	4	26	41	5
24	10	2018	17	37	12	24	10	2018	5	14	4	5
25	10	2018	18	23	46	25	10	2018	6	3	3	5
26	10	2018	19	13	13	26	10	2018	6	54	5	5
27	10	2018	20	5	44	27	10	2018	7	47	55	5
28	10	2018	21	1	15	28	10	2018	8	44	13	5
29	10	2018	21	59	7	29	10	2018	9	42	18	5
30	10	2018	22	57	50	30	10	2018	10	40	54	5
31	10	2018	23	56	34	31	10	2018	11	38	41	5
32	10	2018	**	44	48	1	11	2018	12	34	46	5
2	11	2018	0	53	56	2	11	2018	13	28	23	5
3	11	2018	1	49	20	3	11	2018	14	19	33	5

4	11	2018	2	42	51	4	11	2018	15	8	43	5
5	11	2018	3	34	52	5	11	2018	15	56	26	5
6	11	2018	4	25	51	6	11	2018	16	43	41	5
7	11	2018	5	16	43	7	11	2018	17	31	9	5
8	11	2018	6	7	44	8	11	2018	18	19	14	5
9	11	2018	6	59	1	9	11	2018	19	8	9	5
10	11	2018	7	50	23	10	11	2018	19	57	35	5
11	11	2018	8	41	23	11	11	2018	20	47	33	5
12	11	2018	9	31	46	12	11	2018	21	37	23	5
13	11	2018	10	20	47	13	11	2018	22	26	30	5
14	11	2018	11	8	5	14	11	2018	23	14	34	5

TARIKH			WAKTU TERBIT BULAN			TARIKH			WAKTU TERBENAM BULAN			LATITUD
H	B	TAHUN	j	m	s	H	B	TAHUN	j	m	s	o
15	11	2018	11	53	35	15	11	2018	**	44	48	5
16	11	2018	12	37	23	16	11	2018	0	1	29	5
17	11	2018	13	20	5	17	11	2018	0	47	8	5
18	11	2018	14	2	24	18	11	2018	1	32	32	5
19	11	2018	14	45	1	19	11	2018	2	18	4	5
20	11	2018	15	28	47	20	11	2018	3	4	27	5
21	11	2018	16	14	37	21	11	2018	3	52	31	5
22	11	2018	17	3	8	22	11	2018	4	42	59	5
23	11	2018	17	55	17	23	11	2018	5	36	18	5
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25	11	2018	19	50	3	25	11	2018	7	32	14	5
26	11	2018	20	50	36	26	11	2018	8	32	48	5
27	11	2018	21	50	50	27	11	2018	9	32	48	5
28	11	2018	22	49	40	28	11	2018	10	30	40	5
29	11	2018	23	46	1	29	11	2018	11	25	41	5
30	11	2018	**	44	48	30	11	2018	12	17	31	5
31	11	2018	0	39	44	1	12	2018	13	6	39	5
2	12	2018	1	31	17	2	12	2018	13	53	52	5
3	12	2018	2	21	27	3	12	2018	14	39	59	5
4	12	2018	3	10	52	4	12	2018	15	26	2	5
5	12	2018	4	0	35	5	12	2018	16	12	47	5
6	12	2018	4	50	50	6	12	2018	17	0	34	5
7	12	2018	5	41	40	7	12	2018	17	49	30	5
8	12	2018	6	32	49	8	12	2018	18	39	19	5
9	12	2018	7	23	37	9	12	2018	19	29	12	5
10	12	2018	8	13	20	10	12	2018	20	18	54	5
11	12	2018	9	1	39	11	12	2018	21	7	40	5
12	12	2018	9	48	2	12	12	2018	21	55	6	5
13	12	2018	10	32	29	13	12	2018	22	41	10	5
14	12	2018	11	15	12	14	12	2018	23	25	58	5

TARIKH			WAKTU TERBIT BULAN			TARIKH			WAKTU TERBENAM BULAN			LATITUD
H	B	TAHUN	j	m	s	H	B	TAHUN	j	m	s	o
15	12	2018	11	56	52	15	12	2018	**	44	48	5
16	12	2018	12	38	23	16	12	2018	0	10	34	5
17	12	2018	13	20	30	17	12	2018	0	55	25	5
18	12	2018	14	4	14	18	12	2018	1	41	29	5
19	12	2018	14	50	36	19	12	2018	2	29	41	5
20	12	2018	15	40	23	20	12	2018	3	20	54	5
21	12	2018	16	34	27	21	12	2018	4	15	36	5

22	12	2018	17	32	48	22	12	2018	5	14	13	5
23	12	2018	18	34	22	23	12	2018	6	15	39	5
24	12	2018	19	37	14	24	12	2018	7	18	8	5
25	12	2018	20	39	17	25	12	2018	8	19	32	5
26	12	2018	21	38	36	26	12	2018	9	17	58	5
27	12	2018	22	34	56	27	12	2018	10	12	41	5
28	12	2018	23	28	17	28	12	2018	11	4	1	5
29	12	2018	**	44	48	29	12	2018	11	52	31	5
30	12	2018	0	19	21	30	12	2018	12	39	11	5
31	12	2018	1	8	58	31	12	2018	13	24	53	5
32	12	2018	1	57	50	1	1	2019	14	10	41	5
2	1	2019	2	47	6	2	1	2019	14	57	18	5
27	12	2017	12	41	11	27	12	2017	0	14	50	6
28	12	2017	13	28	20	28	12	2017	1	4	41	6
29	12	2017	14	18	31	29	12	2017	1	57	8	6
30	12	2017	15	12	23	30	12	2017	2	52	51	6
31	12	2017	16	10	28	31	12	2017	3	51	57	6
1	1	2018	17	12	13	32	12	2017	4	54	19	6
2	1	2018	18	15	57	2	1	2018	5	58	14	6
3	1	2018	19	19	25	3	1	2018	7	1	29	6
4	1	2018	20	20	40	4	1	2018	8	2	0	6
5	1	2018	21	18	16	5	1	2018	8	58	27	6
6	1	2018	22	12	26	6	1	2018	9	50	40	6
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8	1	2018	23	52	9	8	1	2018	11	25	14	6
9	1	2018	**	44	48	9	1	2018	12	9	21	6
10	1	2018	0	39	25	10	1	2018	12	52	37	6
11	1	2018	1	25	59	11	1	2018	13	35	44	6
12	1	2018	2	12	20	12	1	2018	14	19	31	6
13	1	2018	2	59	21	13	1	2018	15	4	28	6
14	1	2018	3	46	55	14	1	2018	15	50	39	6

TARIKH			WAKTU TERBIT			TARIKH			WAKTU TERBENAM			LATITUD
H	B	TAHUN	j	m	s	H	B	TAHUN	j	m	s	o
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16	1	2018	5	22	55	16	1	2018	17	25	51	6
17	1	2018	6	10	23	17	1	2018	18	14	10	6
18	1	2018	6	57	13	18	1	2018	19	2	25	6
19	1	2018	7	42	58	19	1	2018	19	50	14	6
20	1	2018	8	27	36	20	1	2018	20	37	31	6
21	1	2018	9	11	23	21	1	2018	21	24	31	6
22	1	2018	9	54	42	22	1	2018	22	11	29	6
23	1	2018	10	38	20	23	1	2018	22	59	29	6
24	1	2018	11	23	19	24	1	2018	23	49	8	6
25	1	2018	12	10	26	25	1	2018	**	44	48	6
26	1	2018	13	0	38	26	1	2018	0	41	24	6
27	1	2018	13	54	26	27	1	2018	1	36	45	6
28	1	2018	14	52	12	28	1	2018	2	35	7	6
29	1	2018	15	53	20	29	1	2018	3	36	24	6
30	1	2018	16	56	13	30	1	2018	4	38	52	6
31	1	2018	17	58	51	31	1	2018	5	40	35	6
1	2	2018	18	59	22	32	1	2018	6	39	50	6
2	2	2018	19	56	42	2	2	2018	7	35	26	6
3	2	2018	20	51	1	3	2	2018	8	27	16	6
4	2	2018	21	42	33	4	2	2018	9	16	6	6

5	2	2018	22	32	1	5	2	2018	10	2	32	6
6	2	2018	23	20	10	6	2	2018	10	47	28	6
7	2	2018	**	44	48	7	2	2018	11	31	46	6
8	2	2018	0	7	43	8	2	2018	12	15	59	6
9	2	2018	0	54	53	9	2	2018	13	0	49	6
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11	2	2018	2	30	25	11	2	2018	14	33	37	6
12	2	2018	3	18	27	12	2	2018	15	21	25	6
13	2	2018	4	6	15	13	2	2018	16	9	35	6
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TARIKH			WAKTU TERBIT			TARIKH			WAKTU TERBENAM			LATITUD
H	B	TAHUN	BULAN			H	B	TAHUN	BULAN			o
			j	m	s				j	m	s	
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16	2	2018	6	25	10	16	2	2018	18	34	21	6
17	2	2018	7	9	43	17	2	2018	19	22	1	6
18	2	2018	7	53	42	18	2	2018	20	9	38	6
19	2	2018	8	37	35	19	2	2018	20	57	27	6
20	2	2018	9	22	3	20	2	2018	21	46	30	6
21	2	2018	10	8	7	21	2	2018	22	37	15	6
22	2	2018	10	56	24	22	2	2018	23	30	16	6
23	2	2018	11	47	37	23	2	2018	**	44	48	6
24	2	2018	12	42	8	24	2	2018	0	26	0	6
25	2	2018	13	39	38	25	2	2018	1	24	10	6
26	2	2018	14	39	28	26	2	2018	2	23	42	6
27	2	2018	15	40	20	27	2	2018	3	23	44	6
28	2	2018	16	40	34	28	2	2018	4	22	32	6
1	3	2018	17	38	58	29	2	2018	5	18	55	6
2	3	2018	18	34	45	2	3	2018	6	12	19	6
3	3	2018	19	28	9	3	3	2018	7	2	51	6
4	3	2018	20	19	38	4	3	2018	7	51	7	6
5	3	2018	21	9	38	5	3	2018	8	37	45	6
6	3	2018	21	58	42	6	3	2018	9	23	27	6
7	3	2018	22	47	17	7	3	2018	10	8	51	6
8	3	2018	23	35	28	8	3	2018	10	54	23	6
9	3	2018	**	44	48	9	3	2018	11	40	28	6
10	3	2018	0	23	53	10	3	2018	12	27	25	6
11	3	2018	1	12	12	11	3	2018	13	15	5	6
12	3	2018	2	0	12	12	3	2018	14	3	15	6
13	3	2018	2	47	38	13	3	2018	14	51	30	6
14	3	2018	3	34	6	14	3	2018	15	39	49	6

TARIKH			WAKTU TERBIT			TARIKH			WAKTU TERBENAM			LATITUD
H	B	TAHUN	BULAN			H	B	TAHUN	BULAN			o
			j	m	s				j	m	s	
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16	3	2018	5	5	2	16	3	2018	17	16	14	6
17	3	2018	5	49	38	17	3	2018	18	4	28	6
18	3	2018	6	34	12	18	3	2018	18	53	8	6
19	3	2018	7	19	15	19	3	2018	19	42	34	6
20	3	2018	8	5	25	20	3	2018	20	33	35	6
21	3	2018	8	53	38	21	3	2018	21	26	34	6
22	3	2018	9	44	19	22	3	2018	22	21	42	6
23	3	2018	10	37	47	23	3	2018	23	18	50	6
24	3	2018	11	33	53	24	3	2018	**	44	48	6

25	3	2018	12	31	50	25	3	2018	0	17	18	6
26	3	2018	13	30	42	26	3	2018	1	15	40	6
27	3	2018	14	29	22	27	3	2018	2	13	14	6
28	3	2018	15	26	42	28	3	2018	3	8	44	6
29	3	2018	16	22	9	29	3	2018	4	1	43	6
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31	3	2018	18	7	14	31	3	2018	5	40	26	6
1	4	2018	18	57	47	32	3	2018	6	27	29	6
2	4	2018	19	47	38	2	4	2018	7	13	38	6
3	4	2018	20	37	7	3	4	2018	7	59	35	6
4	4	2018	21	26	27	4	4	2018	8	45	46	6
5	4	2018	22	15	26	5	4	2018	9	32	23	6
6	4	2018	23	4	25	6	4	2018	10	19	33	6
7	4	2018	23	52	57	7	4	2018	11	7	26	6
8	4	2018	**	44	48	8	4	2018	11	55	39	6
9	4	2018	0	40	44	9	4	2018	12	43	58	6
10	4	2018	1	27	35	10	4	2018	13	32	10	6
11	4	2018	2	13	26	11	4	2018	14	20	1	6
12	4	2018	2	58	14	12	4	2018	15	7	48	6
13	4	2018	3	42	45	13	4	2018	15	55	51	6
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TARIKH			WAKTU TERBIT BULAN			TARIKH			WAKTU TERBENAM BULAN			LATITUD
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17	4	2018	6	47	0	17	4	2018	19	18	53	6
18	4	2018	7	37	59	18	4	2018	20	14	43	6
19	4	2018	8	31	50	19	4	2018	21	12	41	6
20	4	2018	9	28	22	20	4	2018	22	12	0	6
21	4	2018	10	26	50	21	4	2018	23	11	23	6
22	4	2018	11	25	52	22	4	2018	**	44	48	6
23	4	2018	12	24	18	23	4	2018	0	9	10	6
24	4	2018	13	21	16	24	4	2018	1	4	48	6
25	4	2018	14	16	7	25	4	2018	1	57	33	6
26	4	2018	15	8	53	26	4	2018	2	47	32	6
27	4	2018	15	59	48	27	4	2018	3	35	17	6
28	4	2018	16	49	39	28	4	2018	4	21	20	6
29	4	2018	17	39	0	29	4	2018	5	6	49	6
30	4	2018	18	28	14	30	4	2018	5	52	11	6
1	5	2018	19	17	33	31	4	2018	6	38	2	6
2	5	2018	20	7	6	2	5	2018	7	24	34	6
3	5	2018	20	56	24	3	5	2018	8	11	50	6
4	5	2018	21	45	32	4	5	2018	8	59	43	6
5	5	2018	22	33	56	5	5	2018	9	48	9	6
6	5	2018	23	21	13	6	5	2018	10	36	37	6
7	5	2018	**	44	48	7	5	2018	11	24	46	6
8	5	2018	0	7	11	8	5	2018	12	12	28	6
9	5	2018	0	52	1	9	5	2018	12	59	39	6
10	5	2018	1	35	49	10	5	2018	13	46	47	6
11	5	2018	2	19	33	11	5	2018	14	34	24	6
12	5	2018	3	3	41	12	5	2018	15	23	3	6
13	5	2018	3	49	2	13	5	2018	16	13	24	6
14	5	2018	4	36	23	14	5	2018	17	6	1	6



TARIKH			WAKTU TERBIT			TARIKH			WAKTU TERBENAM			LATITUD
H	B	TAHUN	j	m	s	H	B	TAHUN	j	m	s	o
15	5	2018	5	26	26	15	5	2018	18	1	36	6
16	5	2018	6	20	5	16	5	2018	19	0	9	6
17	5	2018	7	17	8	17	5	2018	20	0	53	6
18	5	2018	8	16	52	18	5	2018	21	2	25	6
19	5	2018	9	17	52	19	5	2018	22	2	57	6
20	5	2018	10	18	18	20	5	2018	23	0	39	6
21	5	2018	11	16	48	21	5	2018	23	55	10	6
22	5	2018	12	12	48	22	5	2018	**	44	48	6
23	5	2018	13	6	4	23	5	2018	0	46	3	6
24	5	2018	13	57	4	24	5	2018	1	34	4	6
25	5	2018	14	46	29	25	5	2018	2	20	1	6
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27	5	2018	16	23	10	27	5	2018	3	48	59	6
28	5	2018	17	11	46	28	5	2018	4	33	47	6
29	5	2018	18	0	48	29	5	2018	5	19	25	6
30	5	2018	18	50	9	30	5	2018	6	6	10	6
31	5	2018	19	39	19	31	5	2018	6	53	48	6
1	6	2018	20	28	7	32	5	2018	7	42	0	6
2	6	2018	21	15	59	2	6	2018	8	30	36	6
3	6	2018	22	2	28	3	6	2018	9	18	57	6
4	6	2018	22	47	31	4	6	2018	10	6	42	6
5	6	2018	23	31	18	5	6	2018	10	53	45	6
6	6	2018	**	44	48	6	6	2018	11	40	10	6
7	6	2018	0	13	58	7	6	2018	12	26	30	6
8	6	2018	0	56	49	8	6	2018	13	13	29	6
9	6	2018	1	40	24	9	6	2018	14	1	50	6
10	6	2018	2	25	39	10	6	2018	14	52	21	6
11	6	2018	3	13	33	11	6	2018	15	45	43	6
12	6	2018	4	4	49	12	6	2018	16	42	37	6
13	6	2018	5	0	23	13	6	2018	17	42	57	6
14	6	2018	5	59	51	14	6	2018	18	45	34	6

TARIKH			WAKTU TERBIT			TARIKH			WAKTU TERBENAM			LATITUD
H	B	TAHUN	j	m	s	H	B	TAHUN	j	m	s	o
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16	6	2018	8	5	6	16	6	2018	20	49	58	6
17	6	2018	9	6	47	17	6	2018	21	47	43	6
18	6	2018	10	5	39	18	6	2018	22	41	41	6
19	6	2018	11	1	24	19	6	2018	23	31	54	6
20	6	2018	11	54	5	20	6	2018	**	44	48	6
21	6	2018	12	44	23	21	6	2018	0	19	3	6
22	6	2018	13	33	11	22	6	2018	1	4	17	6
23	6	2018	14	21	6	23	6	2018	1	48	33	6
24	6	2018	15	8	59	24	6	2018	2	32	31	6
25	6	2018	15	57	19	25	6	2018	3	17	19	6
26	6	2018	16	46	6	26	6	2018	4	3	7	6
27	6	2018	17	35	10	27	6	2018	4	50	4	6
28	6	2018	18	23	53	28	6	2018	5	37	58	6
29	6	2018	19	12	4	29	6	2018	6	26	16	6
30	6	2018	19	59	8	30	6	2018	7	14	47	6
1	7	2018	20	44	41	1	7	2018	8	2	49	6
2	7	2018	21	28	44	2	7	2018	8	50	3	6

3	7	2018	22	11	35	3	7	2018	9	36	29	6
4	7	2018	22	53	30	4	7	2018	10	22	15	6
5	7	2018	23	35	42	5	7	2018	11	7	57	6
6	7	2018	**	44	48	6	7	2018	11	54	28	6
7	7	2018	0	18	48	7	7	2018	12	42	31	6
8	7	2018	1	3	58	8	7	2018	13	33	1	6
9	7	2018	1	52	10	9	7	2018	14	26	47	6
10	7	2018	2	44	19	10	7	2018	15	24	4	6
11	7	2018	3	40	41	11	7	2018	16	24	51	6
12	7	2018	4	41	22	12	7	2018	17	27	57	6
13	7	2018	5	44	44	13	7	2018	18	31	12	6
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TARIKH			WAKTU TERBIT BULAN			TARIKH			WAKTU TERBENAM BULAN			LATITUD
H	B	TAHUN	j	m	s	H	B	TAHUN	j	m	s	o
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17	7	2018	9	45	49	17	7	2018	22	13	45	6
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19	7	2018	11	29	11	19	7	2018	23	46	37	6
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23	7	2018	14	43	15	23	7	2018	2	1	15	6
24	7	2018	15	32	2	24	7	2018	2	47	39	6
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26	7	2018	17	9	10	26	7	2018	4	23	15	6
27	7	2018	17	56	25	27	7	2018	5	11	41	6
28	7	2018	18	42	29	28	7	2018	5	59	45	6
29	7	2018	19	27	11	29	7	2018	6	47	21	6
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1	8	2018	21	34	20	1	8	2018	9	5	43	6
2	8	2018	22	16	27	2	8	2018	9	51	19	6
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4	8	2018	23	45	16	4	8	2018	11	26	9	6
5	8	2018	**	44	48	5	8	2018	12	16	54	6
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9	8	2018	3	24	9	9	8	2018	16	10	32	6
10	8	2018	4	27	10	10	8	2018	17	12	26	6
11	8	2018	5	30	24	11	8	2018	18	12	18	6
12	8	2018	6	31	55	12	8	2018	19	8	45	6
13	8	2018	7	30	35	13	8	2018	20	1	51	6
14	8	2018	8	26	25	14	8	2018	20	51	57	6

TARIKH			WAKTU TERBIT BULAN			TARIKH			WAKTU TERBENAM BULAN			LATITUD
H	B	TAHUN	j	m	s	H	B	TAHUN	j	m	s	o
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16	8	2018	10	10	52	16	8	2018	22	26	10	6
17	8	2018	11	0	50	17	8	2018	23	12	1	6
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19	8	2018	12	39	4	19	8	2018	**	44	48	6

20	8	2018	13	28	9	20	8	2018	0	44	16	6
21	8	2018	14	17	6	21	8	2018	1	31	37	6
22	8	2018	15	5	37	22	8	2018	2	19	38	6
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26	8	2018	18	8	53	26	8	2018	5	31	22	6
27	8	2018	18	51	46	27	8	2018	6	17	53	6
28	8	2018	19	33	58	28	8	2018	7	3	55	6
29	8	2018	20	15	54	29	8	2018	7	49	44	6
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31	8	2018	21	43	6	31	8	2018	9	23	25	6
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3	9	2018	**	44	48	3	9	2018	11	59	8	6
4	9	2018	0	13	23	4	9	2018	12	56	22	6
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7	9	2018	3	12	1	7	9	2018	15	55	6	6
8	9	2018	4	13	12	8	9	2018	16	52	19	6
9	9	2018	5	12	48	9	9	2018	17	46	51	6
10	9	2018	6	10	6	10	9	2018	18	38	28	6
11	9	2018	7	5	0	11	9	2018	19	28	1	6
12	9	2018	7	58	12	12	9	2018	20	16	8	6
13	9	2018	8	50	2	13	9	2018	21	3	27	6
14	9	2018	9	41	2	14	9	2018	21	50	37	6

TARIKH			WAKTU TERBIT			TARIKH			WAKTU TERBENAM			LATITUD
H	B	TAHUN	j	m	s	H	B	TAHUN	j	m	s	o
15	9	2018	10	31	25	15	9	2018	22	37	48	6
16	9	2018	11	21	26	16	9	2018	23	25	43	6
17	9	2018	12	11	12	17	9	2018	**	44	48	6
18	9	2018	13	0	22	18	9	2018	0	14	5	6
19	9	2018	13	48	37	19	9	2018	1	2	44	6
20	9	2018	14	35	41	20	9	2018	1	51	17	6
21	9	2018	15	21	14	21	9	2018	2	39	23	6
22	9	2018	16	5	33	22	9	2018	3	26	42	6
23	9	2018	16	48	54	23	9	2018	4	13	37	6
24	9	2018	17	31	34	24	9	2018	5	0	5	6
25	9	2018	18	14	8	25	9	2018	5	46	25	6
26	9	2018	18	57	6	26	9	2018	6	33	1	6
27	9	2018	19	41	26	27	9	2018	7	20	31	6
28	9	2018	20	27	50	28	9	2018	8	9	46	6
29	9	2018	21	16	55	29	9	2018	9	1	7	6
30	9	2018	22	9	6	30	9	2018	9	54	52	6
1	10	2018	23	4	25	1	10	2018	10	50	56	6
2	10	2018	**	44	48	2	10	2018	11	48	35	6
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4	10	2018	1	1	22	4	10	2018	13	44	44	6
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6	10	2018	2	59	12	6	10	2018	15	34	49	6
7	10	2018	3	55	55	7	10	2018	16	26	26	6
8	10	2018	4	50	51	8	10	2018	17	16	0	6
9	10	2018	5	44	10	9	10	2018	18	4	23	6
10	10	2018	6	36	39	10	10	2018	18	52	14	6

11	10	2018	7	28	33	11	10	2018	19	40	3	6
12	10	2018	8	20	9	12	10	2018	20	28	14	6
13	10	2018	9	11	26	13	10	2018	21	16	42	6
14	10	2018	10	2	17	14	10	2018	22	5	49	6

TARIKH			WAKTU TERBIT BULAN			TARIKH			WAKTU TERBENAM BULAN			LATITUD
H	B	TAHUN	j	m	s	H	B	TAHUN	j	m	s	o
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16	10	2018	11	41	50	16	10	2018	23	44	14	6
17	10	2018	12	29	40	17	10	2018	**	44	48	6
18	10	2018	13	15	56	18	10	2018	0	32	46	6
19	10	2018	14	0	33	19	10	2018	1	20	29	6
20	10	2018	14	43	59	20	10	2018	2	7	12	6
21	10	2018	15	26	43	21	10	2018	2	53	37	6
22	10	2018	16	9	18	22	10	2018	3	39	54	6
23	10	2018	16	52	23	23	10	2018	4	26	35	6
24	10	2018	17	36	46	24	10	2018	5	14	19	6
25	10	2018	18	23	0	25	10	2018	6	3	39	6
26	10	2018	19	12	8	26	10	2018	6	55	1	6
27	10	2018	20	4	23	27	10	2018	7	49	9	6
28	10	2018	20	59	42	28	10	2018	8	45	41	6
29	10	2018	21	57	29	29	10	2018	9	43	54	6
30	10	2018	22	56	14	30	10	2018	10	42	31	6
31	10	2018	23	55	7	31	10	2018	11	40	13	6
32	10	2018	**	44	48	1	11	2018	12	36	5	6
2	11	2018	0	52	46	2	11	2018	13	29	25	6
3	11	2018	1	48	28	3	11	2018	14	20	14	6
4	11	2018	2	42	21	4	11	2018	15	9	2	6
5	11	2018	3	34	45	5	11	2018	15	56	22	6
6	11	2018	4	26	6	6	11	2018	16	43	15	6
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8	11	2018	6	8	41	8	11	2018	18	18	8	6
9	11	2018	7	0	16	9	11	2018	19	6	48	6
10	11	2018	7	51	50	10	11	2018	19	56	3	6
11	11	2018	8	42	59	11	11	2018	20	45	55	6
12	11	2018	9	33	24	12	11	2018	21	35	45	6
13	11	2018	10	22	23	13	11	2018	22	24	57	6
14	11	2018	11	9	33	14	11	2018	23	13	10	6

TARIKH			WAKTU TERBIT BULAN			TARIKH			WAKTU TERBENAM BULAN			LATITUD
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19	11	2018	14	45	7	19	11	2018	2	17	48	6
20	11	2018	15	28	32	20	11	2018	3	4	32	6
21	11	2018	16	14	0	21	11	2018	3	52	57	6
22	11	2018	17	2	11	22	11	2018	4	43	46	6
23	11	2018	17	54	2	23	11	2018	5	37	26	6
24	11	2018	18	49	41	24	11	2018	6	34	20	6
25	11	2018	19	48	25	25	11	2018	7	33	49	6
26	11	2018	20	48	57	26	11	2018	8	34	28	6
27	11	2018	21	49	19	27	11	2018	9	34	24	6

28	11	2018	22	48	22	28	11	2018	10	32	5	6
29	11	2018	23	45	1	29	11	2018	11	26	50	6
30	11	2018	**	44	48	30	11	2018	12	18	20	6
31	11	2018	0	39	7	1	12	2018	13	7	6	6
2	12	2018	1	31	2	2	12	2018	13	53	57	6
3	12	2018	2	21	34	3	12	2018	14	39	41	6
4	12	2018	3	11	21	4	12	2018	15	25	23	6
5	12	2018	4	1	24	5	12	2018	16	11	49	6
6	12	2018	4	51	57	6	12	2018	16	59	19	6
7	12	2018	5	43	3	7	12	2018	17	48	2	6
8	12	2018	6	34	22	8	12	2018	18	37	42	6
9	12	2018	7	25	15	9	12	2018	19	27	33	6
10	12	2018	8	14	58	10	12	2018	20	17	18	6
11	12	2018	9	3	12	11	12	2018	21	6	11	6
12	12	2018	9	49	24	12	12	2018	21	53	49	6
13	12	2018	10	33	38	13	12	2018	22	40	8	6
14	12	2018	11	16	5	14	12	2018	23	25	14	6

TARIKH			WAKTU TERBIT			TARIKH			WAKTU TERBENAM			LATITUD
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16	12	2018	12	38	39	16	12	2018	0	10	9	6
17	12	2018	13	20	25	17	12	2018	0	55	20	6
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19	12	2018	14	49	50	19	12	2018	2	30	18	6
20	12	2018	15	39	17	20	12	2018	3	21	51	6
21	12	2018	16	33	4	21	12	2018	4	16	52	6
22	12	2018	17	31	13	22	12	2018	5	15	43	6
23	12	2018	18	32	42	23	12	2018	6	17	17	6
24	12	2018	19	35	38	24	12	2018	7	19	47	6
25	12	2018	20	37	52	25	12	2018	8	21	3	6
26	12	2018	21	37	29	26	12	2018	9	19	14	6
27	12	2018	22	34	10	27	12	2018	10	13	38	6
28	12	2018	23	27	53	28	12	2018	11	4	36	6
29	12	2018	**	44	48	29	12	2018	11	52	43	6
30	12	2018	0	19	21	30	12	2018	12	39	0	6
31	12	2018	1	9	19	31	12	2018	13	24	21	6
32	12	2018	1	58	33	1	1	2019	14	9	48	6
2	1	2019	2	48	8	2	1	2019	14	56	8	6
27	12	2017	12	41	3	27	12	2017	0	14	48	7
28	12	2017	13	27	51	28	12	2017	1	5	0	7
29	12	2017	14	17	41	29	12	2017	1	57	48	7
30	12	2017	15	11	15	30	12	2017	2	53	51	7
31	12	2017	16	9	5	31	12	2017	3	53	13	7
1	1	2018	17	10	42	32	12	2017	4	55	47	7
2	1	2018	18	14	26	2	1	2018	5	59	46	7
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8	1	2018	23	52	16	8	1	2018	11	25	17	7
9	1	2018	**	44	48	9	1	2018	12	9	4	7
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12	1	2018	2	13	22	12	1	2018	14	18	23	7
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TARIKH			WAKTU TERBIT			TARIKH			WAKTU TERBENAM			LATITUD
			BULAN						BULAN			
H	B	TAHUN	j	m	s	H	B	TAHUN	j	m	s	o
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17	1	2018	6	11	51	17	1	2018	18	12	45	7
18	1	2018	6	58	34	18	1	2018	19	1	10	7
19	1	2018	7	44	7	19	1	2018	19	49	11	7
20	1	2018	8	28	30	20	1	2018	20	36	44	7
21	1	2018	9	12	0	21	1	2018	21	24	3	7
22	1	2018	9	55	0	22	1	2018	22	11	19	7
23	1	2018	10	38	19	23	1	2018	22	59	40	7
24	1	2018	11	22	57	24	1	2018	23	49	39	7
25	1	2018	12	9	45	25	1	2018	**	44	48	7
26	1	2018	12	59	38	26	1	2018	0	42	15	7
27	1	2018	13	53	10	27	1	2018	1	37	53	7
28	1	2018	14	50	44	28	1	2018	2	36	30	7
29	1	2018	15	51	48	29	1	2018	3	37	55	7
30	1	2018	16	54	44	30	1	2018	4	40	24	7
31	1	2018	17	57	32	31	1	2018	5	41	59	7
1	2	2018	18	58	18	32	1	2018	6	41	2	7
2	2	2018	19	55	58	2	2	2018	7	36	20	7
3	2	2018	20	50	37	3	2	2018	8	27	50	7
4	2	2018	21	42	31	4	2	2018	9	16	18	7
5	2	2018	22	32	20	5	2	2018	10	2	23	7
6	2	2018	23	20	48	6	2	2018	10	47	0	7
7	2	2018	**	44	48	7	2	2018	11	30	59	7
8	2	2018	0	8	38	8	2	2018	12	14	56	7
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11	2	2018	2	31	54	11	2	2018	14	32	6	7
12	2	2018	3	19	59	12	2	2018	15	19	53	7
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TARIKH			WAKTU TERBIT			TARIKH			WAKTU TERBENAM			LATITUD
			BULAN						BULAN			
H	B	TAHUN	j	m	s	H	B	TAHUN	j	m	s	o
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16	2	2018	6	26	10	16	2	2018	18	33	29	7
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19	2	2018	8	37	40	19	2	2018	20	57	32	7
20	2	2018	9	21	48	20	2	2018	21	46	54	7
21	2	2018	10	7	32	21	2	2018	22	37	59	7
22	2	2018	10	55	30	22	2	2018	23	31	19	7
23	2	2018	11	46	26	23	2	2018	**	44	48	7
24	2	2018	12	40	44	24	2	2018	0	27	18	7
25	2	2018	13	38	7	25	2	2018	1	25	38	7
26	2	2018	14	37	57	26	2	2018	2	25	14	7
27	2	2018	15	38	55	27	2	2018	3	25	13	7
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1	3	2018	17	38	4	29	2	2018	5	19	58	7
2	3	2018	18	34	11	2	3	2018	6	13	2	7
3	3	2018	19	27	57	3	3	2018	7	3	14	7
4	3	2018	20	19	47	4	3	2018	7	51	9	7
5	3	2018	21	10	7	5	3	2018	8	37	25	7
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7	3	2018	22	48	21	7	3	2018	10	7	55	7
8	3	2018	23	36	45	8	3	2018	10	53	12	7
9	3	2018	**	44	48	9	3	2018	11	39	5	7
10	3	2018	0	25	20	10	3	2018	12	25	56	7
11	3	2018	1	13	43	11	3	2018	13	13	33	7
12	3	2018	2	1	44	12	3	2018	14	1	45	7
13	3	2018	2	49	5	13	3	2018	14	50	7	7
14	3	2018	3	35	24	14	3	2018	15	38	37	7

TARIKH			WAKTU TERBIT			TARIKH			WAKTU TERBENAM			LATITUD
H	B	TAHUN	j	m	s	H	B	TAHUN	j	m	s	o
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16	3	2018	5	5	51	16	3	2018	17	15	33	7
17	3	2018	5	50	10	17	3	2018	18	4	5	7
18	3	2018	6	34	24	18	3	2018	18	53	6	7
19	3	2018	7	19	6	19	3	2018	19	42	52	7
20	3	2018	8	4	56	20	3	2018	20	34	14	7
21	3	2018	8	52	49	21	3	2018	21	27	32	7
22	3	2018	9	43	13	22	3	2018	22	22	56	7
23	3	2018	10	36	26	23	3	2018	23	20	16	7
24	3	2018	11	32	23	24	3	2018	**	44	48	7
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27	3	2018	14	28	4	27	3	2018	2	14	38	7
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29	3	2018	16	21	26	29	3	2018	4	2	36	7
30	3	2018	17	15	7	30	3	2018	4	52	43	7
31	3	2018	18	7	14	31	3	2018	5	40	37	7
1	4	2018	18	58	7	32	3	2018	6	27	19	7
2	4	2018	19	48	18	2	4	2018	7	13	8	7
3	4	2018	20	38	5	3	4	2018	7	58	46	7
4	4	2018	21	27	40	4	4	2018	8	44	41	7
5	4	2018	22	16	49	5	4	2018	9	31	4	7
6	4	2018	23	5	56	6	4	2018	10	18	5	7
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8	4	2018	**	44	48	8	4	2018	11	54	6	7
9	4	2018	0	42	15	9	4	2018	12	42	30	7
10	4	2018	1	28	58	10	4	2018	13	30	51	7
11	4	2018	2	14	38	11	4	2018	14	18	56	7
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13	4	2018	3	43	25	13	4	2018	15	55	20	7
14	4	2018	4	27	38	14	4	2018	16	44	18	7

TARIKH			WAKTU TERBIT			TARIKH			WAKTU TERBENAM			LATITUD
H	B	TAHUN	j	m	s	H	B	TAHUN	j	m	s	o
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19	4	2018	8	30	32	19	4	2018	21	14	5	7
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21	4	2018	10	25	16	21	4	2018	23	12	57	7
22	4	2018	11	24	21	22	4	2018	**	44	48	7
23	4	2018	12	22	55	23	4	2018	0	10	38	7
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26	4	2018	15	8	22	26	4	2018	2	48	12	7
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28	4	2018	16	49	52	28	4	2018	4	21	18	7
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1	5	2018	19	18	40	31	4	2018	6	37	2	7
2	5	2018	20	8	26	2	5	2018	7	23	19	7
3	5	2018	20	57	53	3	5	2018	8	10	24	7
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5	5	2018	22	35	29	5	5	2018	9	46	35	7
6	5	2018	23	22	42	6	5	2018	10	35	5	7
7	5	2018	**	44	48	7	5	2018	11	23	22	7
8	5	2018	0	8	30	8	5	2018	12	11	15	7
9	5	2018	0	53	6	9	5	2018	12	58	42	7
10	5	2018	1	36	38	10	5	2018	13	46	7	7
11	5	2018	2	20	3	11	5	2018	14	34	3	7
12	5	2018	3	3	52	12	5	2018	15	23	2	7
13	5	2018	3	48	51	13	5	2018	16	13	45	7
14	5	2018	4	35	51	14	5	2018	17	6	44	7

TARIKH			WAKTU TERBIT			TARIKH			WAKTU TERBENAM			LATITUD
H	B	TAHUN	j	m	s	H	B	TAHUN	j	m	s	o
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16	5	2018	6	18	53	16	5	2018	19	1	28	7
17	5	2018	7	15	42	17	5	2018	20	2	24	7
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19	5	2018	9	16	17	19	5	2018	22	4	29	7
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21	5	2018	11	15	34	21	5	2018	23	56	17	7
22	5	2018	12	11	51	22	5	2018	**	44	48	7
23	5	2018	13	5	27	23	5	2018	0	46	50	7
24	5	2018	13	56	48	24	5	2018	1	34	31	7
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29	5	2018	18	2	5	29	5	2018	5	18	15	7
30	5	2018	18	51	36	30	5	2018	6	4	47	7
31	5	2018	19	40	53	31	5	2018	6	52	17	7
1	6	2018	20	29	43	32	5	2018	7	40	24	7
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3	6	2018	22	3	52	3	6	2018	9	17	29	7
4	6	2018	22	48	43	4	6	2018	10	5	24	7
5	6	2018	23	32	15	5	6	2018	10	52	41	7
6	6	2018	**	44	48	6	6	2018	11	39	22	7
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8	6	2018	0	57	9	8	6	2018	13	13	19	7



9	6	2018	1	40	24	9	6	2018	14	2	0	7
10	6	2018	2	25	18	10	6	2018	14	52	53	7
11	6	2018	3	12	50	11	6	2018	15	46	35	7
12	6	2018	4	3	46	12	6	2018	16	43	48	7
13	6	2018	4	59	3	13	6	2018	17	44	22	7
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TARIKH			WAKTU TERBIT BULAN			TARIKH			WAKTU TERBENAM BULAN			LATITUD
H	B	TAHUN	j	m	s	H	B	TAHUN	j	m	s	o
15	6	2018	7	0	28	15	6	2018	19	50	13	7
16	6	2018	8	3	34	16	6	2018	20	51	25	7
17	6	2018	9	5	25	17	6	2018	21	48	57	7
18	6	2018	10	4	34	18	6	2018	22	42	37	7
19	6	2018	11	0	39	19	6	2018	23	32	29	7
20	6	2018	11	53	41	20	6	2018	**	44	48	7
21	6	2018	12	44	21	21	6	2018	0	19	16	7
22	6	2018	13	33	29	22	6	2018	1	4	9	7
23	6	2018	14	21	44	23	6	2018	1	48	5	7
24	6	2018	15	9	55	24	6	2018	2	31	44	7
25	6	2018	15	58	30	25	6	2018	3	16	14	7
26	6	2018	16	47	30	26	6	2018	4	1	49	7
27	6	2018	17	36	42	27	6	2018	4	48	36	7
28	6	2018	18	25	29	28	6	2018	5	36	23	7
29	6	2018	19	13	38	29	6	2018	6	24	40	7
30	6	2018	20	0	35	30	6	2018	7	13	15	7
1	7	2018	20	45	58	1	7	2018	8	1	26	7
2	7	2018	21	29	47	2	7	2018	8	48	52	7
3	7	2018	22	12	22	3	7	2018	9	35	34	7
4	7	2018	22	53	59	4	7	2018	10	21	37	7
5	7	2018	23	35	51	5	7	2018	11	7	38	7
6	7	2018	**	44	48	6	7	2018	11	54	29	7
7	7	2018	0	18	36	7	7	2018	12	42	53	7
8	7	2018	1	3	25	8	7	2018	13	33	44	7
9	7	2018	1	51	18	9	7	2018	14	27	48	7
10	7	2018	2	43	8	10	7	2018	15	25	22	7
11	7	2018	3	39	15	11	7	2018	16	26	22	7
12	7	2018	4	39	47	12	7	2018	17	29	33	7
13	7	2018	5	43	8	13	7	2018	18	32	45	7
14	7	2018	6	47	10	14	7	2018	19	33	49	7

TARIKH			WAKTU TERBIT BULAN			TARIKH			WAKTU TERBENAM BULAN			LATITUD
H	B	TAHUN	j	m	s	H	B	TAHUN	j	m	s	o
15	7	2018	7	49	36	15	7	2018	20	31	2	7
16	7	2018	8	49	2	16	7	2018	21	24	23	7
17	7	2018	9	45	16	17	7	2018	22	14	7	7
18	7	2018	10	38	28	18	7	2018	23	1	5	7
19	7	2018	11	29	22	19	7	2018	23	46	16	7
20	7	2018	12	18	48	20	7	2018	**	44	48	7
21	7	2018	13	7	23	21	7	2018	0	30	36	7
22	7	2018	13	55	51	22	7	2018	1	14	50	7
23	7	2018	14	44	35	23	7	2018	2	0	1	7
24	7	2018	15	33	31	24	7	2018	2	46	14	7
25	7	2018	16	22	24	25	7	2018	3	33	31	7
26	7	2018	17	10	45	26	7	2018	4	21	40	7

27	7	2018	17	57	55	27	7	2018	5	10	8	7
28	7	2018	18	43	49	28	7	2018	5	58	19	7
29	7	2018	19	28	19	29	7	2018	6	46	6	7
30	7	2018	20	11	21	30	7	2018	7	33	9	7
31	7	2018	20	53	18	31	7	2018	8	19	28	7
1	8	2018	21	34	36	1	8	2018	9	5	18	7
2	8	2018	22	16	23	2	8	2018	9	51	13	7
3	8	2018	22	59	23	3	8	2018	10	38	8	7
4	8	2018	23	44	32	4	8	2018	11	26	43	7
5	8	2018	**	44	48	5	8	2018	12	17	48	7
6	8	2018	0	32	53	6	8	2018	13	12	4	7
7	8	2018	1	25	20	7	8	2018	14	9	33	7
8	8	2018	2	21	54	8	8	2018	15	10	0	7
9	8	2018	3	22	34	9	8	2018	16	12	7	7
10	8	2018	4	25	37	10	8	2018	17	13	55	7
11	8	2018	5	29	2	11	8	2018	18	13	32	7
12	8	2018	6	30	51	12	8	2018	19	9	40	7
13	8	2018	7	29	51	13	8	2018	20	2	24	7
14	8	2018	8	26	4	14	8	2018	20	52	6	7

TARIKH			WAKTU TERBIT			TARIKH			WAKTU TERBENAM			LATITUD
H	B	TAHUN	j	m	s	H	B	TAHUN	j	m	s	o
15	8	2018	9	19	39	15	8	2018	21	39	33	7
16	8	2018	10	11	15	16	8	2018	22	25	36	7
17	8	2018	11	1	34	17	8	2018	23	11	9	7
18	8	2018	11	51	6	18	8	2018	23	56	35	7
19	8	2018	12	40	21	19	8	2018	**	44	48	7
20	8	2018	13	29	36	20	8	2018	0	42	54	7
21	8	2018	14	18	40	21	8	2018	1	30	5	7
22	8	2018	15	7	13	22	8	2018	2	18	3	7
23	8	2018	15	54	54	23	8	2018	3	6	28	7
24	8	2018	16	41	11	24	8	2018	3	54	53	7
25	8	2018	17	26	9	25	8	2018	4	42	47	7
26	8	2018	18	9	50	26	8	2018	5	30	17	7
27	8	2018	18	52	27	27	8	2018	6	17	4	7
28	8	2018	19	34	19	28	8	2018	7	3	24	7
29	8	2018	20	15	56	29	8	2018	7	49	33	7
30	8	2018	20	58	25	30	8	2018	8	36	4	7
31	8	2018	21	42	28	31	8	2018	9	23	53	7
1	9	2018	22	28	55	1	9	2018	10	13	31	7
2	9	2018	23	18	34	2	9	2018	11	5	36	7
3	9	2018	**	44	48	3	9	2018	12	0	29	7
4	9	2018	0	11	55	4	9	2018	12	57	54	7
5	9	2018	1	8	51	5	9	2018	13	57	16	7
6	9	2018	2	8	58	6	9	2018	14	57	21	7
7	9	2018	3	10	33	7	9	2018	15	56	28	7
8	9	2018	4	11	58	8	9	2018	16	53	25	7
9	9	2018	5	11	53	9	9	2018	17	47	35	7
10	9	2018	6	9	34	10	9	2018	18	38	50	7
11	9	2018	7	4	51	11	9	2018	19	28	0	7
12	9	2018	7	58	26	12	9	2018	20	15	43	7
13	9	2018	8	50	38	13	9	2018	21	2	42	7
14	9	2018	9	41	57	14	9	2018	21	49	33	7

TARIKH WAKTU TERBIT TARIKH WAKTU TERBENAM LATITUD

H	B	TAHUN	BULAN			H	B	TAHUN	BULAN			o
			j	m	s				j	m	s	
15	9	2018	10	32	36	15	9	2018	22	36	30	7
16	9	2018	11	22	50	16	9	2018	23	24	14	7
17	9	2018	12	12	45	17	9	2018	**	44	48	7
18	9	2018	13	1	59	18	9	2018	0	12	30	7
19	9	2018	13	50	12	19	9	2018	1	1	8	7
20	9	2018	14	37	9	20	9	2018	1	49	45	7
21	9	2018	15	22	31	21	9	2018	2	38	0	7
22	9	2018	16	6	37	22	9	2018	3	25	32	7
23	9	2018	16	49	40	23	9	2018	4	12	42	7
24	9	2018	17	32	2	24	9	2018	4	59	28	7
25	9	2018	18	14	16	25	9	2018	5	46	7	7
26	9	2018	18	56	54	26	9	2018	6	33	3	7
27	9	2018	19	40	53	27	9	2018	7	20	54	7
28	9	2018	20	26	58	28	9	2018	8	10	29	7
29	9	2018	21	15	45	29	9	2018	9	2	9	7
30	9	2018	22	7	42	30	9	2018	9	56	10	7
1	10	2018	23	2	51	1	10	2018	10	52	27	7
2	10	2018	**	44	48	2	10	2018	11	50	12	7
3	10	2018	0	0	24	3	10	2018	12	48	29	7
4	10	2018	0	59	49	4	10	2018	13	46	12	7
5	10	2018	1	59	28	5	10	2018	14	42	8	7
6	10	2018	2	58	8	6	10	2018	15	35	43	7
7	10	2018	3	55	12	7	10	2018	16	26	59	7
8	10	2018	4	50	30	8	10	2018	17	16	10	7
9	10	2018	5	44	12	9	10	2018	18	4	10	7
10	10	2018	6	37	4	10	10	2018	18	51	38	7
11	10	2018	7	29	20	11	10	2018	19	39	7	7
12	10	2018	8	21	14	12	10	2018	20	27	1	7
13	10	2018	9	12	46	13	10	2018	21	15	16	7
14	10	2018	10	3	48	14	10	2018	22	4	15	7

TARIKH			WAKTU TERBIT			TARIKH			WAKTU TERBENAM			LATITUD
H	B	TAHUN	BULAN			H	B	TAHUN	BULAN			o
			j	m	s				j	m	s	
15	10	2018	10	54	13	15	10	2018	22	53	31	7
16	10	2018	11	43	28	16	10	2018	23	42	39	7
17	10	2018	12	31	13	17	10	2018	**	44	48	7
18	10	2018	13	17	19	18	10	2018	0	31	18	7
19	10	2018	14	1	43	19	10	2018	1	19	12	7
20	10	2018	14	44	53	20	10	2018	2	6	10	7
21	10	2018	15	27	19	21	10	2018	2	52	52	7
22	10	2018	16	9	34	22	10	2018	3	39	28	7
23	10	2018	16	52	18	23	10	2018	4	26	30	7
24	10	2018	17	36	20	24	10	2018	5	14	34	7
25	10	2018	18	22	14	25	10	2018	6	4	16	7
26	10	2018	19	11	3	26	10	2018	6	55	57	7
27	10	2018	20	3	2	27	10	2018	7	50	23	7
28	10	2018	20	58	9	28	10	2018	8	47	9	7
29	10	2018	21	55	50	29	10	2018	9	45	31	7
30	10	2018	22	54	38	30	10	2018	10	44	9	7
31	10	2018	23	53	40	31	10	2018	11	41	45	7
32	10	2018	**	44	48	1	11	2018	12	37	25	7
2	11	2018	0	51	35	2	11	2018	13	30	27	7
3	11	2018	1	47	37	3	11	2018	14	20	55	7

4	11	2018	2	41	51	4	11	2018	15	9	21	7
5	11	2018	3	34	37	5	11	2018	15	56	18	7
6	11	2018	4	26	21	6	11	2018	16	42	49	7
7	11	2018	5	17	58	7	11	2018	17	29	34	7
8	11	2018	6	9	38	8	11	2018	18	17	2	7
9	11	2018	7	1	30	9	11	2018	19	5	27	7
10	11	2018	7	53	18	10	11	2018	19	54	30	7
11	11	2018	8	44	35	11	11	2018	20	44	17	7
12	11	2018	9	35	3	12	11	2018	21	34	6	7
13	11	2018	10	23	59	13	11	2018	22	23	24	7
14	11	2018	11	11	2	14	11	2018	23	11	47	7

TARIKH			WAKTU TERBIT BULAN			TARIKH			WAKTU TERBENAM BULAN			LATITUD
H	B	TAHUN	j	m	s	H	B	TAHUN	j	m	s	o
15	11	2018	11	56	9	15	11	2018	23	59	6	7
16	11	2018	12	39	28	16	11	2018	**	44	48	7
17	11	2018	13	21	35	17	11	2018	0	45	21	7
18	11	2018	14	3	16	18	11	2018	1	31	21	7
19	11	2018	14	45	12	19	11	2018	2	17	32	7
20	11	2018	15	28	16	20	11	2018	3	4	37	7
21	11	2018	16	13	23	21	11	2018	3	53	24	7
22	11	2018	17	1	14	22	11	2018	4	44	34	7
23	11	2018	17	52	46	23	11	2018	5	38	33	7
24	11	2018	18	48	11	24	11	2018	6	35	44	7
25	11	2018	19	46	47	25	11	2018	7	35	24	7
26	11	2018	20	47	19	26	11	2018	8	36	7	7
27	11	2018	21	47	47	27	11	2018	9	36	0	7
28	11	2018	22	47	4	28	11	2018	10	33	31	7
29	11	2018	23	44	2	29	11	2018	11	27	59	7
30	11	2018	**	44	48	30	11	2018	12	19	9	7
31	11	2018	0	38	29	1	12	2018	13	7	33	7
2	12	2018	1	30	46	2	12	2018	13	54	2	7
3	12	2018	2	21	41	3	12	2018	14	39	24	7
4	12	2018	3	11	50	4	12	2018	15	24	44	7
5	12	2018	4	2	14	5	12	2018	16	10	50	7
6	12	2018	4	53	5	6	12	2018	16	58	3	7
7	12	2018	5	44	26	7	12	2018	17	46	33	7
8	12	2018	6	35	56	8	12	2018	18	36	5	7
9	12	2018	7	26	54	9	12	2018	19	25	54	7
10	12	2018	8	16	37	10	12	2018	20	15	41	7
11	12	2018	9	4	45	11	12	2018	21	4	42	7
12	12	2018	9	50	48	12	12	2018	21	52	32	7
13	12	2018	10	34	48	13	12	2018	22	39	6	7
14	12	2018	11	16	58	14	12	2018	23	24	29	7

TARIKH			WAKTU TERBIT BULAN			TARIKH			WAKTU TERBENAM BULAN			LATITUD
H	B	TAHUN	j	m	s	H	B	TAHUN	j	m	s	o
15	12	2018	11	58	2	15	12	2018	**	44	48	7
16	12	2018	12	38	54	16	12	2018	0	9	44	7
17	12	2018	13	20	20	17	12	2018	0	55	15	7
18	12	2018	14	3	23	18	12	2018	1	42	0	7
19	12	2018	14	49	3	19	12	2018	2	30	55	7
20	12	2018	15	38	10	20	12	2018	3	22	49	7
21	12	2018	16	31	41	21	12	2018	4	18	8	7

22	12	2018	17	29	38	22	12	2018	5	17	14	7
23	12	2018	18	31	2	23	12	2018	6	18	56	7
24	12	2018	19	34	2	24	12	2018	7	21	26	7
25	12	2018	20	36	27	25	12	2018	8	22	34	7
26	12	2018	21	36	21	26	12	2018	9	20	31	7
27	12	2018	22	33	23	27	12	2018	10	14	34	7
28	12	2018	23	27	30	28	12	2018	11	5	11	7
29	12	2018	**	44	48	29	12	2018	11	52	55	7
30	12	2018	0	19	21	30	12	2018	12	38	50	7
31	12	2018	1	9	41	31	12	2018	13	23	49	7
32	12	2018	1	59	16	1	1	2019	14	8	56	7
2	1	2019	2	49	10	2	1	2019	14	54	58	7
27	12	2017	12	40	38	27	12	2017	0	14	43	10
28	12	2017	13	26	23	28	12	2017	1	5	58	10
29	12	2017	14	15	12	29	12	2017	1	59	49	10
30	12	2017	15	7	50	30	12	2017	2	56	51	10
31	12	2017	16	4	55	31	12	2017	3	57	4	10
1	1	2018	17	6	6	32	12	2017	5	0	14	10
2	1	2018	18	9	48	2	1	2018	6	4	26	10
3	1	2018	19	13	44	3	1	2018	7	7	28	10
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5	1	2018	21	14	41	5	1	2018	9	2	38	10
6	1	2018	22	10	11	6	1	2018	9	53	33	10
7	1	2018	23	2	36	7	1	2018	10	40	52	10
8	1	2018	23	52	39	8	1	2018	11	25	23	10
9	1	2018	**	44	48	9	1	2018	12	8	11	10
10	1	2018	0	41	15	10	1	2018	12	50	11	10
11	1	2018	1	29	1	11	1	2018	13	32	10	10
12	1	2018	2	16	27	12	1	2018	14	14	57	10
13	1	2018	3	4	21	13	1	2018	14	59	6	10
14	1	2018	3	52	35	14	1	2018	15	44	44	10

TARIKH			WAKTU TERBIT			TARIKH			WAKTU TERBENAM			LATITUD
H	B	TAHUN	j	m	s	H	B	TAHUN	j	m	s	o
15	1	2018	4	40	59	15	1	2018	16	31	47	10
16	1	2018	5	29	6	16	1	2018	17	19	45	10
17	1	2018	6	16	20	17	1	2018	18	8	26	10
18	1	2018	7	2	39	18	1	2018	18	57	21	10
19	1	2018	7	47	37	19	1	2018	19	46	2	10
20	1	2018	8	31	15	20	1	2018	20	34	24	10
21	1	2018	9	13	53	21	1	2018	21	22	36	10
22	1	2018	9	55	57	22	1	2018	22	10	51	10
23	1	2018	10	38	17	23	1	2018	23	0	12	10
24	1	2018	11	21	54	24	1	2018	23	51	12	10
25	1	2018	12	7	41	25	1	2018	**	44	48	10
26	1	2018	12	56	37	26	1	2018	0	44	49	10
27	1	2018	13	49	21	27	1	2018	1	41	21	10
28	1	2018	14	46	20	28	1	2018	2	40	40	10
29	1	2018	15	47	9	29	1	2018	3	42	30	10
30	1	2018	16	50	13	30	1	2018	4	45	1	10
31	1	2018	17	53	32	31	1	2018	5	46	16	10
1	2	2018	18	55	6	32	1	2018	6	44	40	10
2	2	2018	19	53	44	2	2	2018	7	39	3	10
3	2	2018	20	49	27	3	2	2018	8	29	31	10
4	2	2018	21	42	25	4	2	2018	9	16	55	10

5	2	2018	22	33	16	5	2	2018	10	1	56	10
6	2	2018	23	22	42	6	2	2018	10	45	33	10
7	2	2018	**	44	48	7	2	2018	11	28	38	10
8	2	2018	0	11	26	8	2	2018	12	11	46	10
9	2	2018	0	59	34	9	2	2018	12	55	43	10
10	2	2018	1	47	58	10	2	2018	13	40	58	10
11	2	2018	2	36	23	11	2	2018	14	27	31	10
12	2	2018	3	24	38	12	2	2018	15	15	16	10
13	2	2018	4	12	19	13	2	2018	16	3	41	10
14	2	2018	4	58	57	14	2	2018	16	52	41	10

TARIKH			WAKTU TERBIT			TARIKH			WAKTU TERBENAM			LATITUD
H	B	TAHUN	BULAN			H	B	TAHUN	BULAN			o
			j	m	s				j	m	s	
15	2	2018	5	44	41	15	2	2018	17	41	51	10
16	2	2018	6	29	11	16	2	2018	18	30	52	10
17	2	2018	7	12	36	17	2	2018	19	19	42	10
18	2	2018	7	55	22	18	2	2018	20	8	36	10
19	2	2018	8	37	55	19	2	2018	20	57	46	10
20	2	2018	9	21	3	20	2	2018	21	48	9	10
21	2	2018	10	5	46	21	2	2018	22	40	13	10
22	2	2018	10	52	46	22	2	2018	23	34	27	10
23	2	2018	11	42	52	23	2	2018	**	44	48	10
24	2	2018	12	36	31	24	2	2018	0	31	15	10
25	2	2018	13	33	31	25	2	2018	1	30	6	10
26	2	2018	14	33	19	26	2	2018	2	29	54	10
27	2	2018	15	34	38	27	2	2018	3	29	42	10
28	2	2018	16	35	45	28	2	2018	4	27	48	10
1	3	2018	17	35	20	29	2	2018	5	23	8	10
2	3	2018	18	32	30	2	3	2018	6	15	14	10
3	3	2018	19	27	19	3	3	2018	7	4	24	10
4	3	2018	20	20	14	4	3	2018	7	51	13	10
5	3	2018	21	11	35	5	3	2018	8	36	26	10
6	3	2018	22	1	54	6	3	2018	9	20	50	10
7	3	2018	22	51	36	7	3	2018	10	5	4	10
8	3	2018	23	40	39	8	3	2018	10	49	36	10
9	3	2018	**	44	48	9	3	2018	11	34	55	10
10	3	2018	0	29	43	10	3	2018	12	21	24	10
11	3	2018	1	18	21	11	3	2018	13	8	53	10
12	3	2018	2	6	22	12	3	2018	13	57	12	10
13	3	2018	2	53	30	13	3	2018	14	45	54	10
14	3	2018	3	39	22	14	3	2018	15	34	57	10

TARIKH			WAKTU TERBIT			TARIKH			WAKTU TERBENAM			LATITUD
H	B	TAHUN	BULAN			H	B	TAHUN	BULAN			o
			j	m	s				j	m	s	
15	3	2018	4	24	21	15	3	2018	16	24	10	10
16	3	2018	5	8	22	16	3	2018	17	13	28	10
17	3	2018	5	51	46	17	3	2018	18	2	58	10
18	3	2018	6	35	0	18	3	2018	18	52	59	10
19	3	2018	7	18	40	19	3	2018	19	43	48	10
20	3	2018	8	3	28	20	3	2018	20	36	12	10
21	3	2018	8	50	21	21	3	2018	21	30	27	10
22	3	2018	9	39	51	22	3	2018	22	26	41	10
23	3	2018	10	32	20	23	3	2018	23	24	36	10
24	3	2018	11	27	50	24	3	2018	**	44	48	10

25	3	2018	12	25	36	25	3	2018	0	23	30	10
26	3	2018	13	24	45	26	3	2018	1	21	49	10
27	3	2018	14	24	8	27	3	2018	2	18	51	10
28	3	2018	15	22	32	28	3	2018	3	13	27	10
29	3	2018	16	19	16	29	3	2018	4	5	14	10
30	3	2018	17	14	0	30	3	2018	4	54	20	10
31	3	2018	18	7	13	31	3	2018	5	41	9	10
1	4	2018	18	59	7	32	3	2018	6	26	49	10
2	4	2018	19	50	19	2	4	2018	7	11	35	10
3	4	2018	20	40	59	3	4	2018	7	56	17	10
4	4	2018	21	31	20	4	4	2018	8	41	21	10
5	4	2018	22	21	4	5	4	2018	9	27	4	10
6	4	2018	23	10	32	6	4	2018	10	13	37	10
7	4	2018	23	59	13	7	4	2018	11	1	11	10
8	4	2018	**	44	48	8	4	2018	11	49	25	10
9	4	2018	0	46	50	9	4	2018	12	38	4	10
10	4	2018	1	33	11	10	4	2018	13	26	53	10
11	4	2018	2	18	17	11	4	2018	14	15	38	10
12	4	2018	3	2	6	12	4	2018	15	4	29	10
13	4	2018	3	45	27	13	4	2018	15	53	46	10
14	4	2018	4	28	41	14	4	2018	16	43	45	10

TARIKH			WAKTU TERBIT			TARIKH			WAKTU TERBENAM			LATITUD
H	B	TAHUN	j	m	s	H	B	TAHUN	j	m	s	o
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16	4	2018	5	57	21	16	4	2018	18	27	30	10
17	4	2018	6	44	11	17	4	2018	19	22	20	10
18	4	2018	7	33	52	18	4	2018	20	19	24	10
19	4	2018	8	26	37	19	4	2018	21	18	19	10
20	4	2018	9	22	23	20	4	2018	22	18	11	10
21	4	2018	10	20	31	21	4	2018	23	17	42	10
22	4	2018	11	19	43	22	4	2018	**	44	48	10
23	4	2018	12	18	44	23	4	2018	0	15	4	10
24	4	2018	13	16	40	24	4	2018	1	9	53	10
25	4	2018	14	12	44	25	4	2018	2	1	32	10
26	4	2018	15	6	51	26	4	2018	2	50	14	10
27	4	2018	15	59	12	27	4	2018	3	36	35	10
28	4	2018	16	50	28	28	4	2018	4	21	12	10
29	4	2018	17	41	11	29	4	2018	5	5	17	10
30	4	2018	18	31	41	30	4	2018	5	49	20	10
1	5	2018	19	22	4	31	4	2018	6	34	1	10
2	5	2018	20	12	30	2	5	2018	7	19	33	10
3	5	2018	21	2	25	3	5	2018	8	6	4	10
4	5	2018	21	51	52	4	5	2018	8	53	29	10
5	5	2018	22	40	13	5	5	2018	9	41	48	10
6	5	2018	23	27	10	6	5	2018	10	30	28	10
7	5	2018	**	44	48	7	5	2018	11	19	7	10
8	5	2018	0	12	27	8	5	2018	12	7	36	10
9	5	2018	0	56	24	9	5	2018	12	55	47	10
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11	5	2018	2	21	35	11	5	2018	14	32	59	10
12	5	2018	3	4	23	12	5	2018	15	23	1	10
13	5	2018	3	48	19	13	5	2018	16	14	49	10
14	5	2018	4	34	14	14	5	2018	17	8	51	10

TARIKH			WAKTU TERBIT			TARIKH			WAKTU TERBENAM			LATITUD
H	B	TAHUN	j	m	s	H	B	TAHUN	j	m	s	o
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16	5	2018	6	15	17	16	5	2018	19	5	27	10
17	5	2018	7	11	22	17	5	2018	20	6	59	10
18	5	2018	8	10	33	18	5	2018	21	8	49	10
19	5	2018	9	11	31	19	5	2018	22	9	9	10
20	5	2018	10	12	25	20	5	2018	23	6	9	10
21	5	2018	11	11	48	21	5	2018	23	59	38	10
22	5	2018	12	8	58	22	5	2018	**	44	48	10
23	5	2018	13	3	34	23	5	2018	0	49	12	10
24	5	2018	13	55	58	24	5	2018	1	35	51	10
25	5	2018	14	46	48	25	5	2018	2	20	24	10
26	5	2018	15	36	35	26	5	2018	3	3	43	10
27	5	2018	16	26	10	27	5	2018	3	46	36	10
28	5	2018	17	15	56	28	5	2018	4	30	10	10
29	5	2018	18	5	57	29	5	2018	5	14	43	10
30	5	2018	18	56	1	30	5	2018	6	0	38	10
31	5	2018	19	45	37	31	5	2018	6	47	40	10
1	6	2018	20	34	32	32	5	2018	7	35	36	10
2	6	2018	21	22	9	2	6	2018	8	24	16	10
3	6	2018	22	8	7	3	6	2018	9	13	1	10
4	6	2018	22	52	21	4	6	2018	10	1	26	10
5	6	2018	23	35	8	5	6	2018	10	49	25	10
6	6	2018	**	44	48	6	6	2018	11	36	55	10
7	6	2018	0	16	37	7	6	2018	12	24	28	10
8	6	2018	0	58	10	8	6	2018	13	12	47	10
9	6	2018	1	40	23	9	6	2018	14	2	31	10
10	6	2018	2	24	14	10	6	2018	14	54	28	10
11	6	2018	3	10	42	11	6	2018	15	49	13	10
12	6	2018	4	0	38	12	6	2018	16	47	22	10
13	6	2018	4	55	3	13	6	2018	17	48	43	10
14	6	2018	5	53	42	14	6	2018	18	51	55	10

TARIKH			WAKTU TERBIT			TARIKH			WAKTU TERBENAM			LATITUD
H	B	TAHUN	j	m	s	H	B	TAHUN	j	m	s	o
15	6	2018	6	55	37	15	6	2018	19	55	1	10
16	6	2018	7	58	54	16	6	2018	20	55	51	10
17	6	2018	9	1	20	17	6	2018	21	52	41	10
18	6	2018	10	1	19	18	6	2018	22	45	25	10
19	6	2018	10	58	22	19	6	2018	23	34	15	10
20	6	2018	11	52	29	20	6	2018	**	44	48	10
21	6	2018	12	44	13	21	6	2018	0	19	55	10
22	6	2018	13	34	25	22	6	2018	1	3	43	10
23	6	2018	14	23	40	23	6	2018	1	46	37	10
24	6	2018	15	12	45	24	6	2018	2	29	19	10
25	6	2018	16	2	8	25	6	2018	3	12	58	10
26	6	2018	16	51	45	26	6	2018	3	57	50	10
27	6	2018	17	41	22	27	6	2018	4	44	6	10
28	6	2018	18	30	19	28	6	2018	5	31	36	10
29	6	2018	19	18	24	29	6	2018	6	19	51	10
30	6	2018	20	5	1	30	6	2018	7	8	39	10
1	7	2018	20	49	52	31	6	2018	7	57	15	10
2	7	2018	21	32	59	2	7	2018	8	45	19	10



3	7	2018	22	14	44	3	7	2018	9	32	47	10
4	7	2018	22	55	26	4	7	2018	10	19	43	10
5	7	2018	23	36	19	5	7	2018	11	6	41	10
6	7	2018	**	44	48	6	7	2018	11	54	32	10
7	7	2018	0	18	0	7	7	2018	12	43	59	10
8	7	2018	1	1	47	8	7	2018	13	35	51	10
9	7	2018	1	48	39	9	7	2018	14	30	55	10
10	7	2018	2	39	33	10	7	2018	15	29	20	10
11	7	2018	3	34	55	11	7	2018	16	30	57	10
12	7	2018	4	35	1	12	7	2018	17	34	23	10
13	7	2018	5	38	20	13	7	2018	18	37	26	10
14	7	2018	6	42	44	14	7	2018	19	37	56	10

TARIKH			WAKTU TERBIT BULAN			TARIKH			WAKTU TERBENAM BULAN			LATITUD
H	B	TAHUN	j	m	s	H	B	TAHUN	j	m	s	o
15	7	2018	7	45	54	15	7	2018	20	34	18	10
16	7	2018	8	46	18	16	7	2018	21	26	37	10
17	7	2018	9	43	37	17	7	2018	22	15	14	10
18	7	2018	10	37	56	18	7	2018	23	1	5	10
19	7	2018	11	29	56	19	7	2018	23	45	12	10
20	7	2018	12	20	24	20	7	2018	**	44	48	10
21	7	2018	13	9	56	21	7	2018	0	28	31	10
22	7	2018	13	59	14	22	7	2018	1	11	50	10
23	7	2018	14	48	39	23	7	2018	1	56	16	10
24	7	2018	15	38	4	24	7	2018	2	41	53	10
25	7	2018	16	27	11	25	7	2018	3	28	49	10
26	7	2018	17	15	33	26	7	2018	4	16	50	10
27	7	2018	18	2	28	27	7	2018	5	5	26	10
28	7	2018	18	47	54	28	7	2018	5	53	59	10
29	7	2018	19	31	46	29	7	2018	6	42	19	10
30	7	2018	20	14	0	30	7	2018	7	30	6	10
31	7	2018	20	55	4	31	7	2018	8	17	16	10
1	8	2018	21	35	24	1	8	2018	9	4	1	10
2	8	2018	22	16	11	2	8	2018	9	50	56	10
3	8	2018	22	58	10	3	8	2018	10	38	51	10
4	8	2018	23	42	19	4	8	2018	11	28	28	10
5	8	2018	**	44	48	5	8	2018	12	20	31	10
6	8	2018	0	29	41	6	8	2018	13	15	40	10
7	8	2018	1	21	19	7	8	2018	14	13	53	10
8	8	2018	2	17	18	8	8	2018	15	14	45	10
9	8	2018	3	17	43	9	8	2018	16	16	56	10
10	8	2018	4	20	56	10	8	2018	17	18	22	10
11	8	2018	5	24	54	11	8	2018	18	17	16	10
12	8	2018	6	27	36	12	8	2018	19	12	26	10
13	8	2018	7	27	40	13	8	2018	20	4	4	10
14	8	2018	8	25	0	14	8	2018	20	52	37	10

TARIKH			WAKTU TERBIT BULAN			TARIKH			WAKTU TERBENAM BULAN			LATITUD
H	B	TAHUN	j	m	s	H	B	TAHUN	j	m	s	o
15	8	2018	9	19	45	15	8	2018	21	38	55	10
16	8	2018	10	12	27	16	8	2018	22	23	55	10
17	8	2018	11	3	46	17	8	2018	23	8	29	10
18	8	2018	11	54	12	18	8	2018	23	53	6	10
19	8	2018	12	44	12	19	8	2018	**	44	48	10

20	8	2018	13	34	1	20	8	2018	0	38	43	10
21	8	2018	14	23	24	21	8	2018	1	25	28	10
22	8	2018	15	12	3	22	8	2018	2	13	13	10
23	8	2018	15	59	34	23	8	2018	3	1	41	10
24	8	2018	16	45	26	24	8	2018	3	50	25	10
25	8	2018	17	29	49	25	8	2018	4	38	49	10
26	8	2018	18	12	44	26	8	2018	5	27	1	10
27	8	2018	18	54	30	27	8	2018	6	14	35	10
28	8	2018	19	35	25	28	8	2018	7	1	50	10
29	8	2018	20	16	2	29	8	2018	7	48	58	10
30	8	2018	20	57	30	30	8	2018	8	36	30	10
31	8	2018	21	40	33	31	8	2018	9	25	20	10
1	9	2018	22	26	2	1	9	2018	10	15	57	10
2	9	2018	23	14	51	2	9	2018	11	8	57	10
3	9	2018	**	44	48	3	9	2018	12	4	36	10
4	9	2018	0	7	30	4	9	2018	13	2	33	10
5	9	2018	1	4	3	5	9	2018	14	2	8	10
6	9	2018	2	4	9	6	9	2018	15	2	2	10
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8	9	2018	4	8	15	8	9	2018	16	56	42	10
9	9	2018	5	9	8	9	9	2018	17	49	49	10
10	9	2018	6	7	55	10	9	2018	18	39	55	10
11	9	2018	7	4	22	11	9	2018	19	27	54	10
12	9	2018	7	59	7	12	9	2018	20	14	30	10
13	9	2018	8	52	25	13	9	2018	21	0	25	10
14	9	2018	9	44	43	14	9	2018	21	46	21	10

TARIKH			WAKTU TERBIT			TARIKH			WAKTU TERBENAM			LATITUD
H	B	TAHUN	j	m	s	H	B	TAHUN	j	m	s	o
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16	9	2018	11	27	6	16	9	2018	23	19	44	10
17	9	2018	12	17	27	17	9	2018	**	44	48	10
18	9	2018	13	6	50	18	9	2018	0	7	42	10
19	9	2018	13	54	59	19	9	2018	0	56	17	10
20	9	2018	14	41	36	20	9	2018	1	45	7	10
21	9	2018	15	26	26	21	9	2018	2	33	48	10
22	9	2018	16	9	49	22	9	2018	3	21	58	10
23	9	2018	16	52	1	23	9	2018	4	9	56	10
24	9	2018	17	33	26	24	9	2018	4	57	36	10
25	9	2018	18	14	40	25	9	2018	5	45	14	10
26	9	2018	18	56	18	26	9	2018	6	33	9	10
27	9	2018	19	39	14	27	9	2018	7	22	2	10
28	9	2018	20	24	19	28	9	2018	8	12	39	10
29	9	2018	21	12	13	29	9	2018	9	5	16	10
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2	10	2018	23	55	30	2	10	2018	11	55	4	10
3	10	2018	**	44	48	3	10	2018	12	53	19	10
4	10	2018	0	55	9	4	10	2018	13	50	37	10
5	10	2018	1	55	23	5	10	2018	14	45	50	10
6	10	2018	2	54	54	6	10	2018	15	38	28	10
7	10	2018	3	53	1	7	10	2018	16	28	37	10
8	10	2018	4	49	28	8	10	2018	17	16	38	10
9	10	2018	5	44	20	9	10	2018	18	3	28	10
10	10	2018	6	38	21	10	10	2018	18	49	50	10

11	10	2018	7	31	40	11	10	2018	19	36	18	10
12	10	2018	8	24	31	12	10	2018	20	23	20	10
13	10	2018	9	16	49	13	10	2018	21	10	55	10
14	10	2018	10	8	23	14	10	2018	21	59	29	10

TARIKH			WAKTU TERBIT BULAN			TARIKH			WAKTU TERBENAM BULAN			LATITUD
H	B	TAHUN	j	m	s	H	B	TAHUN	j	m	s	o
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16	10	2018	11	48	22	16	10	2018	23	37	49	10
17	10	2018	12	35	53	17	10	2018	**	44	48	10
18	10	2018	13	21	31	18	10	2018	0	26	51	10
19	10	2018	14	5	16	19	10	2018	1	15	19	10
20	10	2018	14	47	37	20	10	2018	2	3	1	10
21	10	2018	15	29	8	21	10	2018	2	50	35	10
22	10	2018	16	10	23	22	10	2018	3	38	10	10
23	10	2018	16	52	5	23	10	2018	4	26	13	10
24	10	2018	17	35	3	24	10	2018	5	15	21	10
25	10	2018	18	19	54	25	10	2018	6	6	6	10
26	10	2018	19	7	47	26	10	2018	6	58	47	10
27	10	2018	19	58	56	27	10	2018	7	54	7	10
28	10	2018	20	53	27	28	10	2018	8	51	36	10
29	10	2018	21	50	53	29	10	2018	9	50	24	10
30	10	2018	22	49	47	30	10	2018	10	49	6	10
31	10	2018	23	49	17	31	10	2018	11	46	24	10
32	10	2018	**	44	48	1	11	2018	12	41	26	10
2	11	2018	0	48	0	2	11	2018	13	33	35	10
3	11	2018	1	45	0	3	11	2018	14	23	1	10
4	11	2018	2	40	20	4	11	2018	15	10	19	10
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7	11	2018	5	19	51	7	11	2018	17	27	11	10
8	11	2018	6	12	32	8	11	2018	18	13	42	10
9	11	2018	7	5	16	9	11	2018	19	1	20	10
10	11	2018	7	57	44	10	11	2018	19	49	50	10
11	11	2018	8	49	26	11	11	2018	20	39	19	10
12	11	2018	9	40	3	12	11	2018	21	29	8	10
13	11	2018	10	28	51	13	11	2018	22	18	41	10
14	11	2018	11	15	31	14	11	2018	23	7	33	10

TARIKH			WAKTU TERBIT BULAN			TARIKH			WAKTU TERBENAM BULAN			LATITUD
H	B	TAHUN	j	m	s	H	B	TAHUN	j	m	s	o
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16	11	2018	12	42	37	16	11	2018	**	44	48	10
17	11	2018	13	23	52	17	11	2018	0	42	38	10
18	11	2018	14	4	35	18	11	2018	1	29	34	10
19	11	2018	14	45	30	19	11	2018	2	16	45	10
20	11	2018	15	27	29	20	11	2018	3	4	53	10
21	11	2018	16	11	32	21	11	2018	3	54	44	10
22	11	2018	16	58	20	22	11	2018	4	46	58	10
23	11	2018	17	48	56	23	11	2018	5	41	57	10
24	11	2018	18	43	39	24	11	2018	6	39	57	10
25	11	2018	19	41	50	25	11	2018	7	40	12	10
26	11	2018	20	42	19	26	11	2018	8	41	9	10
27	11	2018	21	43	9	27	11	2018	9	40	51	10

28	11	2018	22	43	7	28	11	2018	10	37	49	10
29	11	2018	23	41	1	29	11	2018	11	31	27	10
30	11	2018	**	44	48	30	11	2018	12	21	36	10
31	11	2018	0	36	35	1	12	2018	13	8	55	10
2	12	2018	1	30	0	2	12	2018	13	54	15	10
3	12	2018	2	22	3	3	12	2018	14	38	29	10
4	12	2018	3	13	18	4	12	2018	15	22	45	10
5	12	2018	4	4	44	5	12	2018	16	7	51	10
6	12	2018	4	56	31	6	12	2018	16	54	14	10
7	12	2018	5	48	38	7	12	2018	17	42	4	10
8	12	2018	6	40	40	8	12	2018	18	31	11	10
9	12	2018	7	31	55	9	12	2018	19	20	52	10
10	12	2018	8	21	36	10	12	2018	20	10	47	10
11	12	2018	9	9	28	11	12	2018	21	0	12	10
12	12	2018	9	55	0	12	12	2018	21	48	38	10
13	12	2018	10	38	19	13	12	2018	22	35	58	10
14	12	2018	11	19	40	14	12	2018	23	22	14	10

TARIKH			WAKTU TERBIT			TARIKH			WAKTU TERBENAM			LATITUD
H	B	TAHUN	j	m	s	H	B	TAHUN	j	m	s	o
15	12	2018	11	59	49	15	12	2018	**	44	48	10
16	12	2018	12	39	42	16	12	2018	0	8	27	10
17	12	2018	13	20	6	17	12	2018	0	54	59	10
18	12	2018	14	2	4	18	12	2018	1	42	48	10
19	12	2018	14	46	41	19	12	2018	2	32	46	10
20	12	2018	15	34	49	20	12	2018	3	25	42	10
21	12	2018	16	27	28	21	12	2018	4	21	58	10
22	12	2018	17	24	49	22	12	2018	5	21	48	10
23	12	2018	18	26	0	23	12	2018	6	23	56	10
24	12	2018	19	29	10	24	12	2018	7	26	27	10
25	12	2018	20	32	10	25	12	2018	8	27	10	10
26	12	2018	21	32	57	26	12	2018	9	24	22	10
27	12	2018	22	31	3	27	12	2018	10	17	26	10
28	12	2018	23	26	17	28	12	2018	11	6	56	10
29	12	2018	**	44	48	29	12	2018	11	53	31	10
30	12	2018	0	19	20	30	12	2018	12	38	17	10
31	12	2018	1	10	48	31	12	2018	13	22	11	10
32	12	2018	2	1	26	1	1	2019	14	6	17	10
2	1	2019	2	52	18	2	1	2019	14	51	26	10