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Location: Longitude : 76.23 E Latitude : 9.96 N

Date	Moonrise	Moonset	Sunrise	Sunset
	h. m.	h. m.	h. m.	h. m.
2019/ 1/ 1	2-31	14-38	6-42	18-15
2019/ 1/ 2	3-23	15-23	6-42	18-15
2019/ 1/ 3	4-13	16-10	6-42	18-16
2019/ 1/ 4	5- 5	16-58	6-43	18-17
2019/ 1/ 5	5-56	17-47	6-43	18-17
2019/ 1/ 6	6-46	18-37	6-44	18-18
2019/ 1/ 7	7-35	19-27	6-44	18-18
2019/ 1/ 8	8-20	20-15	6-44	18-19
2019/ 1/ 9	9- 5	21- 3	6-45	18-19
2019/ 1/10	9-46	21-49	6-45	18-20
2019/ 1/11	10-26	22-35	6-45	18-20
2019/ 1/12	11- 6	23-20	6-45	18-21
2019/ 1/13	11-45	-----	6-46	18-21
2019/ 1/14	12-25	0- 6	6-46	18-22
2019/ 1/15	13- 7	0-54	6-46	18-22
2019/ 1/16	13-52	1-44	6-46	18-23
2019/ 1/17	14-41	2-37	6-47	18-23
2019/ 1/18	15-36	3-35	6-47	18-24
2019/ 1/19	16-35	4-35	6-47	18-24
2019/ 1/20	17-38	5-38	6-47	18-25
2019/ 1/21	18-43	6-41	6-47	18-25
2019/ 1/22	19-47	7-41	6-47	18-26
2019/ 1/23	20-48	8-38	6-47	18-26
2019/ 1/24	21-47	9-31	6-47	18-26
2019/ 1/25	22-42	10-20	6-47	18-27
2019/ 1/26	23-36	11- 7	6-48	18-27
2019/ 1/27	-----	11-52	6-48	18-28
2019/ 1/28	0-28	12-36	6-48	18-28
2019/ 1/29	1-20	13-22	6-48	18-28
2019/ 1/30	2-11	14- 8	6-47	18-29
2019/ 1/31	3- 2	14-55	6-47	18-29
2019/ 2/ 1	3-53	15-44	6-47	18-30
2019/ 2/ 2	4-42	16-33	6-47	18-30
2019/ 2/ 3	5-31	17-23	6-47	18-30
2019/ 2/ 4	6-18	18-11	6-47	18-31
2019/ 2/ 5	7- 2	18-59	6-47	18-31
2019/ 2/ 6	7-45	19-46	6-47	18-31
2019/ 2/ 7	8-25	20-32	6-47	18-31
2019/ 2/ 8	9- 5	21-18	6-46	18-32
2019/ 2/ 9	9-44	22- 3	6-46	18-32
2019/ 2/10	10-23	22-49	6-46	18-32
2019/ 2/11	11- 3	23-37	6-46	18-33
2019/ 2/12	11-46	-----	6-46	18-33
2019/ 2/13	12-31	0-27	6-45	18-33
2019/ 2/14	13-22	1-21	6-45	18-33
2019/ 2/15	14-16	2-18	6-45	18-33
2019/ 2/16	15-16	3-18	6-44	18-34

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2019/ 2/17	16-19	4-19	6-44	18-34
2019/ 2/18	17-23	5-20	6-44	18-34
2019/ 2/19	18-26	6-19	6-44	18-34
2019/ 2/20	19-28	7-14	6-43	18-34
2019/ 2/21	20-26	8- 6	6-43	18-34
2019/ 2/22	21-23	8-56	6-42	18-35
2019/ 2/23	22-18	9-44	6-42	18-35
2019/ 2/24	23-12	10-30	6-42	18-35
2019/ 2/25	-----	11-17	6-41	18-35
2019/ 2/26	0- 5	12- 4	6-41	18-35
2019/ 2/27	0-57	12-52	6-40	18-35
2019/ 2/28	1-49	13-41	6-40	18-35
2019/ 3/ 1	2-39	14-29	6-39	18-35
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2019/ 3/ 3	4-15	16- 8	6-38	18-35
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2019/ 3/ 7	7- 5	19-16	6-37	18-36
2019/ 3/ 8	7-44	20- 1	6-36	18-36
2019/ 3/ 9	8-23	20-47	6-35	18-36
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2019/ 3/12	10-28	23-15	6-34	18-36
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2019/ 3/17	15- 4	3- 4	6-31	18-36
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2019/ 3/19	17- 7	4-57	6-30	18-36
2019/ 3/20	18- 7	5-51	6-29	18-36
2019/ 3/21	19- 5	6-41	6-29	18-36
2019/ 3/22	20- 2	7-31	6-28	18-36
2019/ 3/23	20-57	8-18	6-28	18-36
2019/ 3/24	21-53	9- 6	6-27	18-36
2019/ 3/25	22-47	9-55	6-27	18-36
2019/ 3/26	23-41	10-44	6-26	18-36
2019/ 3/27	-----	11-34	6-25	18-36
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2019/ 3/29	1-24	13-14	6-24	18-35
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2019/ 3/31	2-58	14-52	6-23	18-35
2019/ 4/ 1	3-42	15-40	6-22	18-35
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2019/ 4/ 7	7-44	20-20	6-19	18-35
2019/ 4/ 8	8-27	21-12	6-19	18-35
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2019/ 4/11	10-58	23-58	6-17	18-35
2019/ 4/12	11-55	-----	6-16	18-35
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2019/ 4/14	13-54	1-53	6-15	18-35
2019/ 4/15	14-53	2-47	6-15	18-35
2019/ 4/16	15-52	3-40	6-14	18-35
2019/ 4/17	16-49	4-29	6-14	18-35
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2019/ 4/19	18-41	6- 6	6-13	18-35
2019/ 4/20	19-37	6-54	6-12	18-36
2019/ 4/21	20-32	7-42	6-12	18-36
2019/ 4/22	21-28	8-32	6-12	18-36
2019/ 4/23	22-22	9-23	6-11	18-36
2019/ 4/24	23-15	10-14	6-11	18-36
2019/ 4/25	-----	11- 5	6-10	18-36
2019/ 4/26	0- 5	11-56	6-10	18-36
2019/ 4/27	0-53	12-45	6- 9	18-36
2019/ 4/28	1-38	13-34	6- 9	18-36
2019/ 4/29	2-20	14-21	6- 9	18-36
2019/ 4/30	3- 1	15- 7	6- 8	18-36
2019/ 5/ 1	3-41	15-53	6- 8	18-36
2019/ 5/ 2	4-19	16-39	6- 8	18-36
2019/ 5/ 3	4-59	17-26	6- 7	18-37
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2019/ 5/ 7	8- 0	20-56	6- 6	18-37
2019/ 5/ 8	8-53	21-54	6- 6	18-37
2019/ 5/ 9	9-50	22-52	6- 5	18-38
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2019/ 5/11	11-48	-----	6- 5	18-38
2019/ 5/12	12-47	0-43	6- 5	18-38
2019/ 5/13	13-44	1-35	6- 5	18-38
2019/ 5/14	14-40	2-24	6- 4	18-38
2019/ 5/15	15-35	3-12	6- 4	18-39
2019/ 5/16	16-29	3-58	6- 4	18-39
2019/ 5/17	17-24	4-44	6- 4	18-39
2019/ 5/18	18-18	5-32	6- 4	18-39
2019/ 5/19	19-14	6-20	6- 3	18-39
2019/ 5/20	20- 9	7-11	6- 3	18-40
2019/ 5/21	21- 4	8- 2	6- 3	18-40
2019/ 5/22	21-56	8-54	6- 3	18-40
2019/ 5/23	22-45	9-47	6- 3	18-40
2019/ 5/24	23-32	10-37	6- 3	18-41
2019/ 5/25	-----	11-27	6- 3	18-41
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2019/ 5/27	0-57	13- 1	6- 3	18-41
2019/ 5/28	1-37	13-47	6- 3	18-42
2019/ 5/29	2-16	14-32	6- 3	18-42
2019/ 5/30	2-55	15-18	6- 3	18-42
2019/ 5/31	3-35	16- 6	6- 3	18-42

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2019/ 6/ 3	5-51	18-45	6- 3	18-43
2019/ 6/ 4	6-44	19-45	6- 3	18-44
2019/ 6/ 5	7-41	20-44	6- 3	18-44
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2019/ 6/ 8	10-42	23-33	6- 3	18-45
2019/ 6/ 9	11-40	-----	6- 3	18-45
2019/ 6/10	12-36	0-23	6- 4	18-45
2019/ 6/11	13-31	1-11	6- 4	18-45
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2019/ 6/13	15-17	2-41	6- 4	18-46
2019/ 6/14	16-10	3-27	6- 4	18-46
2019/ 6/15	17- 4	4-14	6- 4	18-46
2019/ 6/16	17-59	5- 3	6- 5	18-47
2019/ 6/17	18-53	5-53	6- 5	18-47
2019/ 6/18	19-47	6-45	6- 5	18-47
2019/ 6/19	20-37	7-37	6- 5	18-47
2019/ 6/20	21-26	8-28	6- 5	18-48
2019/ 6/21	22-11	9-19	6- 5	18-48
2019/ 6/22	22-53	10- 7	6- 6	18-48
2019/ 6/23	23-34	10-54	6- 6	18-48
2019/ 6/24	-----	11-40	6- 6	18-49
2019/ 6/25	0-13	12-25	6- 6	18-49
2019/ 6/26	0-51	13-11	6- 7	18-49
2019/ 6/27	1-30	13-57	6- 7	18-49
2019/ 6/28	2-10	14-45	6- 7	18-49
2019/ 6/29	2-53	15-37	6- 7	18-49
2019/ 6/30	3-40	16-31	6- 8	18-50
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2019/ 7/ 6	9-32	22-19	6- 9	18-50
2019/ 7/ 7	10-30	23- 8	6- 9	18-50
2019/ 7/ 8	11-27	23-55	6-10	18-50
2019/ 7/ 9	12-20	-----	6-10	18-50
2019/ 7/10	13-14	0-40	6-10	18-51
2019/ 7/11	14- 6	1-26	6-10	18-51
2019/ 7/12	14-59	2-11	6-11	18-51
2019/ 7/13	15-53	2-59	6-11	18-51
2019/ 7/14	16-46	3-48	6-11	18-51
2019/ 7/15	17-40	4-38	6-11	18-51
2019/ 7/16	18-31	5-30	6-11	18-50
2019/ 7/17	19-20	6-21	6-12	18-50
2019/ 7/18	20- 6	7-12	6-12	18-50
2019/ 7/19	20-50	8- 1	6-12	18-50
2019/ 7/20	21-31	8-49	6-12	18-50
2019/ 7/21	22-10	9-36	6-13	18-50
2019/ 7/22	22-48	10-20	6-13	18-50

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2019/ 7/23	23-27	11- 5	6-13	18-50
2019/ 7/24	-----	11-50	6-13	18-50
2019/ 7/25	0- 6	12-37	6-13	18-50
2019/ 7/26	0-46	13-26	6-14	18-49
2019/ 7/27	1-30	14-17	6-14	18-49
2019/ 7/28	2-18	15-13	6-14	18-49
2019/ 7/29	3-11	16-11	6-14	18-49
2019/ 7/30	4- 8	17-12	6-14	18-48
2019/ 7/31	5-10	18-13	6-14	18-48
2019/ 8/ 1	6-13	19-12	6-15	18-48
2019/ 8/ 2	7-17	20- 8	6-15	18-48
2019/ 8/ 3	8-18	21- 0	6-15	18-47
2019/ 8/ 4	9-17	21-50	6-15	18-47
2019/ 8/ 5	10-13	22-37	6-15	18-47
2019/ 8/ 6	11- 8	23-24	6-15	18-47
2019/ 8/ 7	12- 2	-----	6-15	18-46
2019/ 8/ 8	12-56	0-10	6-15	18-46
2019/ 8/ 9	13-49	0-57	6-15	18-45
2019/ 8/10	14-42	1-46	6-16	18-45
2019/ 8/11	15-36	2-35	6-16	18-45
2019/ 8/12	16-27	3-26	6-16	18-44
2019/ 8/13	17-17	4-17	6-16	18-44
2019/ 8/14	18- 3	5- 8	6-16	18-43
2019/ 8/15	18-48	5-57	6-16	18-43
2019/ 8/16	19-30	6-45	6-16	18-43
2019/ 8/17	20- 9	7-32	6-16	18-42
2019/ 8/18	20-48	8-17	6-16	18-42
2019/ 8/19	21-26	9- 2	6-16	18-41
2019/ 8/20	22- 4	9-47	6-16	18-41
2019/ 8/21	22-43	10-32	6-16	18-40
2019/ 8/22	23-25	11-19	6-16	18-40
2019/ 8/23	-----	12- 8	6-16	18-39
2019/ 8/24	0- 9	13- 1	6-16	18-39
2019/ 8/25	0-59	13-56	6-16	18-38
2019/ 8/26	1-53	14-54	6-16	18-38
2019/ 8/27	2-51	15-54	6-16	18-37
2019/ 8/28	3-52	16-54	6-16	18-36
2019/ 8/29	4-55	17-51	6-16	18-36
2019/ 8/30	5-58	18-46	6-16	18-35
2019/ 8/31	6-59	19-38	6-16	18-35
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2019/ 9/ 3	9-52	22- 4	6-16	18-33
2019/ 9/ 4	10-48	22-52	6-16	18-32
2019/ 9/ 5	11-43	23-41	6-15	18-32
2019/ 9/ 6	12-38	-----	6-15	18-31
2019/ 9/ 7	13-32	0-31	6-15	18-31
2019/ 9/ 8	14-24	1-23	6-15	18-30
2019/ 9/ 9	15-14	2-13	6-15	18-29
2019/ 9/10	16- 1	3- 4	6-15	18-29
2019/ 9/11	16-46	3-54	6-15	18-28
2019/ 9/12	17-29	4-42	6-15	18-28

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2019/ 9/13	18- 9	5-30	6-15	18-27
2019/ 9/14	18-48	6-15	6-15	18-26
2019/ 9/15	19-26	7- 0	6-15	18-26
2019/ 9/16	20- 4	7-45	6-15	18-25
2019/ 9/17	20-42	8-30	6-15	18-24
2019/ 9/18	21-23	9-16	6-14	18-24
2019/ 9/19	22- 6	10- 4	6-14	18-23
2019/ 9/20	22-53	10-54	6-14	18-22
2019/ 9/21	23-43	11-48	6-14	18-22
2019/ 9/22	-----	12-43	6-14	18-21
2019/ 9/23	0-38	13-41	6-14	18-21
2019/ 9/24	1-36	14-38	6-14	18-20
2019/ 9/25	2-37	15-35	6-14	18-19
2019/ 9/26	3-39	16-30	6-14	18-19
2019/ 9/27	4-39	17-23	6-14	18-18
2019/ 9/28	5-39	18-13	6-14	18-18
2019/ 9/29	6-38	19- 3	6-14	18-17
2019/ 9/30	7-36	19-52	6-14	18-16
2019/10/ 1	8-33	20-41	6-14	18-16
2019/10/ 2	9-31	21-32	6-13	18-15
2019/10/ 3	10-27	22-23	6-13	18-15
2019/10/ 4	11-24	23-16	6-13	18-14
2019/10/ 5	12-18	-----	6-13	18-13
2019/10/ 6	13-10	0- 8	6-13	18-13
2019/10/ 7	13-59	1- 0	6-13	18-12
2019/10/ 8	14-44	1-50	6-13	18-12
2019/10/ 9	15-28	2-39	6-13	18-11
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2019/10/11	16-47	4-12	6-13	18-10
2019/10/12	17-26	4-58	6-13	18-10
2019/10/13	18- 4	5-43	6-13	18- 9
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2019/10/15	19-23	7-14	6-13	18- 8
2019/10/16	20- 5	8- 2	6-13	18- 8
2019/10/17	20-50	8-51	6-13	18- 7
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2019/10/30	8-11	20-10	6-15	18- 2
2019/10/31	9- 9	21- 3	6-15	18- 2
2019/11/ 1	10- 6	21-57	6-15	18- 2
2019/11/ 2	11- 1	22-51	6-15	18- 2
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2019/11/12	18- 2	5-57	6-18	18- 0
2019/11/13	18-47	6-47	6-18	18- 0
2019/11/14	19-36	7-39	6-19	18- 0
2019/11/15	20-28	8-34	6-19	18- 0
2019/11/16	21-24	9-30	6-19	18- 0
2019/11/17	22-21	10-26	6-20	18- 0
2019/11/18	23-20	11-22	6-20	18- 0
2019/11/19	-----	12-15	6-21	18- 0
2019/11/20	0-17	13- 6	6-21	18- 0
2019/11/21	1-14	13-55	6-21	18- 0
2019/11/22	2-10	14-41	6-22	18- 0
2019/11/23	3- 5	15-28	6-22	18- 0
2019/11/24	4- 0	16-15	6-23	18- 0
2019/11/25	4-57	17- 4	6-23	18- 0
2019/11/26	5-54	17-55	6-24	18- 1
2019/11/27	6-52	18-48	6-24	18- 1
2019/11/28	7-51	19-43	6-25	18- 1
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2019/12/ 2	11-19	23-14	6-26	18- 2
2019/12/ 3	12- 2	-----	6-27	18- 2
2019/12/ 4	12-43	0- 2	6-27	18- 2
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2019/12/ 7	14-37	2-17	6-29	18- 3
2019/12/ 8	15-16	3- 2	6-30	18- 4
2019/12/ 9	15-57	3-49	6-30	18- 4
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2019/12/11	17-28	5-30	6-31	18- 5
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2019/12/13	19-16	7-22	6-32	18- 6
2019/12/14	20-14	8-19	6-33	18- 6
2019/12/15	21-14	9-17	6-33	18- 6
2019/12/16	22-13	10-12	6-34	18- 7
2019/12/17	23-10	11- 4	6-34	18- 7
2019/12/18	-----	11-53	6-35	18- 8
2019/12/19	0- 6	12-40	6-35	18- 8
2019/12/20	1- 0	13-26	6-36	18- 9
2019/12/21	1-54	14-11	6-36	18- 9
2019/12/22	2-48	14-57	6-37	18-10
2019/12/23	3-43	15-46	6-37	18-10
2019/12/24	4-39	16-36	6-38	18-11
2019/12/25	5-37	17-30	6-38	18-11

			kochi ap	
2019/12/26	6-33	18-24	6-39	18-12
2019/12/27	7-29	19-20	6-39	18-12
2019/12/28	8-22	20-13	6-40	18-13
2019/12/29	9-11	21- 5	6-40	18-13
2019/12/30	9-56	21-54	6-41	18-14
2019/12/31	10-38	22-41	6-41	18-14

all times in local time (= UT + 5.5h)