

الاقترانات الكوكبية الكبرى

د. محمد فراس الصفدي

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(conjunction)

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2040

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2020

1.23

2040 25 6.7 3

6.7 3.5 6.7

27 46

40 1128 1817

2161 83 69

$^{22}10$ $^{9}10 \times 13$ 13

2100 2000

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65

2100-2000

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41	1.8	2060/9/11	45	2.0	2009/6/19
33	0.6	2066/5/14	46	2.7	2010/8/23
46	2.7	2067/1/5	46	0.7	2015/11/3
30	0.1	2072/9/14	46	4.0	2022/3/12
41	2.0	2073/6/2	43	2.3	2028/9/8
34	0.2	2079/2/28	45	2.5	2029/11/12
43	0.2	2079/11/10	30	0.4	2034/5/12
33	0.5	2085/6/15	47	2.8	2034/12/28
44	1.4	2086/4/2	34	2.1	2041/6/27
32	0.6	2091/11/30	31	0.3	2047/2/24
40	1.5	2092/9/14	45	0.1	2047/11/7
36	0.7	2098/5/15	31	0.5	2053/7/14
45	2.5	2099/1/10	46	2.3	2054/3/26

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2100-2000

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34	1.0	2047/3/8	38	1.2	2001/8/5
33	0.6	2049/8/18	34	1.6	2002/6/3
39	1.5	2050/1/15	35	0.6	2004/11/4
44	2.5	2053/9/14	39	1.4	2005/9/2
46	1.6	2056/12/15	32	0.6	2008/2/1
43	5.5	2060/4/8	43	2.0	2008/12/1
46	2.9	2060/8/4	45	3.3	2012/3/15
44	0.3	2063/11/8	42	0.4	2015/7/1
43	1.6	2067/2/4	46	1.1	2015/10/26
37	0.8	2070/5/14	46	2.43	2019/1/22
37	1.5	2071/3/15	43	0.2	2022/4/30
42	1.3	2074/1/21	31	0.6	2023/3/2
45	3.2	2077/9/21	36	0.9	2025/8/12
43	2.6	2081/4/21	37	1.6	2026/6/9
45	2.2	2084/8/13	32	0.7	2028/11/9
42	0.6	2087/11/14	42	1.9	2029/9/8
31	0.8	2088/9/11	45	1.9	2032/12/7
35	1.6	2091/12/10	46	4.3	2036/3/25
34	0.8	2094/5/21	45	3.6	2036/7/23
39	2.0	2095/3/22	46	0.2	2039/11/2
44	1.0	2098/6/28	45	2.0	2043/1/29
			40	0.6	2046/5/7

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42	0.8	2054/4/25	42	0.7	2001/7/15
45	0.1	2057/6/7	43	0.8	2007/7/2
45	2.3	2060/7/19	46	2.9	2007/10/15
45	3.3	2063/5/18	43	3.7	2013/9/20
43	0.3	2066/7/3	36	0.1	2016/1/9
32	0.7	2068/10/26	37	3.0	2016/10/30
40	2.0	2069/8/18	43	1.1	2019/2/18
39	0.1	2071/12/10	30	1.8	2019/12/11
34	2.8	2072/9/30	46	2.2	2022/3/29
45	1.0	2075/1/19	47	2.5	2025/1/20
47	3.2	2078/2/24	40	3.7	2025/4/29
47	1.36	2080/12/15	45	3.8	2028/3/1
43	1.2	2084/1/26	31	0.3	2030/6/25
35	0.43	2086/5/20	40	3.5	2031/4/16
37	2.7	2087/3/12	35	0.3	2033/8/13
39	0.3	2089/7/7	36	2.0	2034/6/3
32	2.7	2090/4/28	40	0.9	2036/9/30
43	1.3	2092/8/24	32	0.04	2037/7/22
46	1.9	2095/10/11	47	1.0	2042/12/23
46	4.2	2098/8/7	43	2.8	2048/11/21
44	1.9	2098/11/16	37	0.6	2051/3/13
			37	0.8	2052/1/2

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53	0.1	2064/12/18	40	0.4	2015/10/17
65	0.62	2067/3/3	58	0.21	2018/1/7
64	0.73	2069/5/11	67	0.71	2020/3/20
63	0.12	2071/7/26	64	0.63	2022/5/29
78	0.98	2073/10/21	65	0.31	2024/8/14
88	1.28	2076/6/29	87	1.25	2026/11/15
78	2.4	2078/9/13	81	1.78	2029/7/21
82	0.92	2080/11/13	76	2.21	2031/9/29
79	1.9	2083/1/28	80	0.2	2033/12/1
61	1.42	2085/4/29	74	2.0	2036/2/19
41	0.3	2087/7/30	54	1.0	2038/5/22
30	1.27	2089/10/14	36	0.64	2040/8/18
			34	0.53	2062/9/26

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(2100-2000) 51

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67	2.9	2046/10/4	30	2.2	2002/5/4
89	3.0	2048/10/2	37	1.6	2004/5/24
106	1.7	2050/5/15	42	0.6	2006/6/17
76	0.5	2052/5/7	46	0.7	2008/7/11
57	0.4	2054/5/11	52	1.9	2010/8/1
40	1.2	2056/5/19	61	2.9	2012/8/17
32	2.4	2074/10/26	74	5.7	2014/8/27
46	2.2	2076/11/2	97	4.4	2016/8/25
62	1.7	2078/11/7	94	1.3	2018/4/2
84	1.1	2080/11/7	71	0.9	2020/3/31
120	2.7	2082/6/29	53	0.3	2022/4/4
80	0.1	2084/6/13	37	0.5	2024/4/11
61	1.0	2086/6/20	32	2.0	2040/9/1
46	1.5	2088/7/1	40	2.6	2042/9/17
35	1.6	2090/7/17	52	2.9	2044/9/27

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19.85 7,253
2100-2000 6 20

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40	1.1	2060/4/10	17	1.2	2000/5/31
44	0.1	2080/3/15	30	0.1	2020/12/21
25	1.3	2100/9/24	25	1.2	2040/11/5

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30	7	2047/3/4	44	5	2015/10/29
41	18	2067/2/14	33	22	2022/4/19
38	7	2091/12/7	44	31	2029/9/23

17	11	2072/9/24	46	5	2022/3/29
48	13	2092/8/31	29	16	2034/5/27
			35	16	2054/4/17

71	7	2020/3/25	20	18	2019/12/2
30	6	2040/8/26	39	11	2060/7/26
81	4	2080/11/10	22	3	2080/2/18

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 26 15-9
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2040 2040 2060 2060
 22 20 12
 24-6 20 (8
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2015/10/26 :



2012/2/26 :

2012/3/15

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2020/3/25 :

71 7



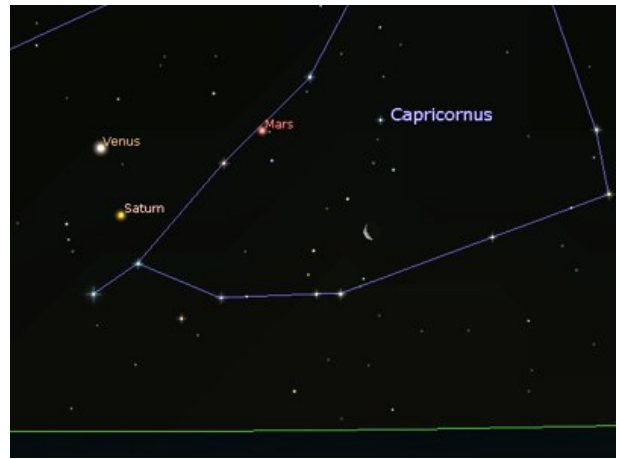
2018/1/7 :

0.21 58



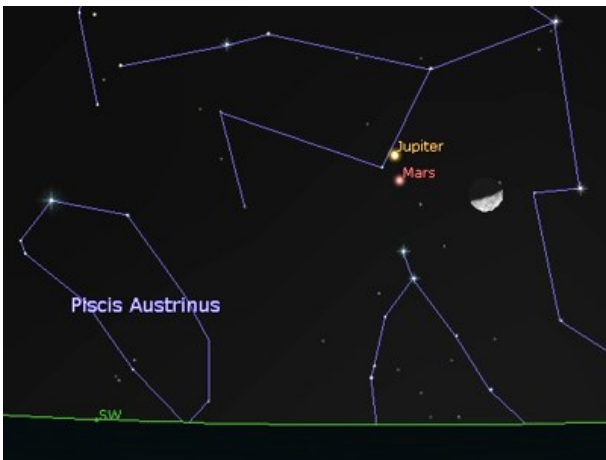
2023/3/2 :

0.6 31



2022/3/29 :

46 5



2033/11/28 :

0.2 12/1



2029/9/23 :

44 31



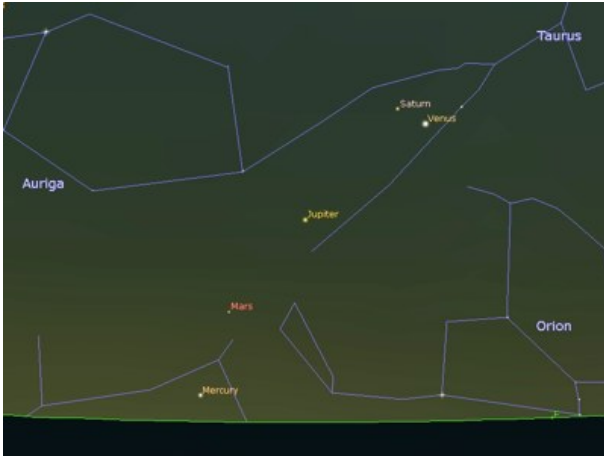
2040/8/26 :

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2034/5/27 :

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2060/7/20 :

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2052/4/24 :

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0.5

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