



Author: J. Schenker, Schweizerische Astronomische Gesellschaft (SAG)

<http://www.sag-sas.ch>

Call for Observation during November 2021

1.) Minorplanets: Observable objects with apparent brightness < 10 mag

Asteroid (Ephemeris)	Brightness begin of month		Brightness end of month
(1) Ceres	7.8	Taurus	7.2
(2) Pallas	9.4	Aquarius	9.8
(7) Iris	9.1	Pisces	8.6
(44) Nysa	10.1	Pisces	9.4

2.) Minorplanets: Close encounters with astronomical objects

Date	Time UT [hh:mm]	Asteroid (Ephemeris)	m (ast) [mag]	Distance [']	Polar angle [°]	Object	m (obj) [mag]	Position (J2000) Ra	Dec
06.11.2021	18:00	(1) Ceres	7.6	7.0	339	HIP 21257	6.6	04h 33m 36s	+16° 19'
09.11.2021	19:00	(145) Adeona	11.6	4.5	308	λ Tau	3.5	04h 00m 42s	+12° 29'
12.11.2021	20:10	(1) Ceres	7.5	9.0	4	75 Tau	5.0	04h 28m 24s	+16° 22'
13.11.2021	20:00	(980) Anacostia	11.5	3.5	191	HIP 115915	6.4	23h 29m 06s	+23° 03'
15.11.2021	03:00	(322) Phaeo	12.0	3.5	127	62 Tau	6.4	04h 24m 00s	+24° 18'
17.11.2021	22:50	(20) Massalia	10.5	5.0	19	π Cnc	5.3	09h 15m 12s	+14° 46'

24.11.2021	00:50	(16) Psyche	12.0	0.5	218	59 Leo	5.0	11h 00m 42s	+06° 06'
25.11.2021	04:00	(10) Hygiea	11.4	9.0	62	NGC 4939	11.4	13h 04m 12s	-10° 20'
27.11.2021	21:00	(44) Nysa	9.5	5.0	358	111 Tau	5.0	05h 24m 24s	+17° 23'
28.11.2021	22:00	(11) Parthenope	11.6	1.0	97	v Leo	5.3	09h 58m 12s	+12° 27'
28.11.2021	23:00	(360) Carlova	12.1	4.0	359	10 Tau	4.3	03h 36m 54s	+00° 24'

3.) Minorplanets: Close approaches by near-Earth objects with min. distance < 5 Lunar Distances LD

Date	Time UT [hh:mm]	Asteroid (Ephemeris)	Min. distance [LD]	rel. speed [km/s]	Diameter [m]
05.11.2021	01:18	2021 UL5	2.68	18.53	14 - 32
05.11.2021	08:04	2021 VH1	1.78	11.87	14 - 32
05.11.2021	08:15	2021 UU1	1.81	9.32	13 - 30
05.11.2021	12:27	2021 VF	2.24	8.40	7.0 - 16
07.11.2021	16:21	2021 UF4	4.06	6.34	11 - 25
09.11.2021	03:48	2019 XS	1.49	10.68	48 - 110
13.11.2021	11:04	2021 UO3	4.56	6.63	12 - 28
13.11.2021	20:33	2021 UM9	4.49	11.20	43 - 96
15.11.2021	11:38	2010 VK139	5.07	13.94	45 - 65
07.01.2022	17:32	2020 AP1	0.003	5.65	3.2 - 7.1

4.) Minorplanets: Close approaches (< 0.1 AU) by near-Earth objects with absolute brightness < 20 mag

Date	Time UT [hh:mm]	Asteroid (Ephemeris)	Min. distance [LD]	rel. speed [km/s]	Diameter [m]
07.01.2021	03:09	2015 FF37	34.63	12.75	480 - 1100
21.11.2021	19:20	3361 Orpheus (1982 F)	15.01	8.14	300
04.12.2021	21:25	415713 (1998 XX2)	30.02	10.33	280 - 620
05.12.2021	00:58	518678 (2008 UZ94)	23.07	20.31	900 - 2000

11.12.2021	13:51	4660 Nereus (1982 DF)	10.23	6.56	330
17.12.2021	17:26	163899 (2003 SD220)	14.12	5.61	765 - 815

5.) Comets:

	Brightness [mag]	Constellation
Short periodic comets:		
4P/Faye	11.0	Gemini - Monoceros
67P/Tschurjumow-Gerasimenko	9.0	Gemini - Cancer 12./13.11: zwischen NGC 2492 und IC 486
104P/Kowal	11.0	Capricorn - Aquarius
Long or not periodic comets:		
C/2017 K2 (PANSTARRS)	12.0	Hercules
C/2019 L3 (ATLAS)	10.0	Lynx
C/2021 A1 (Leonard)	13.0	Canes Venatici - Coma Berenices

(Sources: [CNEOS](#) [MPC](#) [JPL](#))