



Call for Observation during February 2023

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

Asteroid (Ephemeris)	Begin of month		End of month	
	[mag]	Const.	[mag]	Const.
(1) Ceres	7.7	Virgo	7.2	Coma Berenices
(2) Pallas	7.6	Canis Major	7.8	Canis Major
(3) Juno	9.7	Cetus	9.7	Cetus
(4) Vesta	8.4	Pisces	8.4	Cetus
(6) Hebe	8.8	Cancer	9.6	Cancer

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
01.02.2023	07:00	(20) Massalia	12.0	4.0	163	NGC 6235	10.2	16h 53m 04s	-22° 11'
04.02.2023	19:00	(4) Vesta	8.4	8.5	55	30 Psc	4.4	00h 02m 00s	-06° 01'
06.02.2023	19:00	(4) Vesta	8.4	10.0	22	33 Psc	4.6	00h 05m 18s	-05° 42'
06.02.2023	19:00	(53) Kalypso	11.2	7.0	356	63 Cnc	5.7	08h 57m 58s	+15° 35'
06.02.2023	23:45	(324) Bamberga	11.2	1.5	11	o Per	3.8	03h 44m 18s	+32° 17'
07.02.2023	22:00	(2) Pallas	7.6	8.5	225	ξ Cma	4.3	06h 31m 54s	-23° 35'
08.02.2023	02:00	(7) Iris	11.0	3.5	341	HIP 72217	6.4	14h 46m 12s	-21° 11'
08.02.2023	21:00	(324) Bamberga	11.2	6.5	142	HIP 17631	6.7	03h 46m 42s	+32° 17'
09.02.2023	00:59	(654) Zelinda	10.4	8.5	154	HIP 44936	5.8	09h 09m 12s	-12° 21'
09.02.2023	02:00	(324) Bamberga	11.2	6.5	271	HIP 17732	6.3	03h 47m 48s	+32° 12'
09.02.2023	18:00	(12) Victoria	12.0	1.5	274	HIP29881	6.6	06h 17m 36s	+14° 04'
10.02.2023	04:15	(7) Iris	11.0	5.0	23	HIP 72310	6.1	14h 47m 12s	-21° 19'
13.02.2023	18:55	(324) Bamberga	11.3	4.5	8	ξ Per	2.8	03h 54m 06s	+31° 53'
14.02.2023	03:00	(89) Julia	11.0	7.5	3	μ Cnc	5.3	08h 07m 48s	+21° 35'
14.02.2023	23:00	(44) Nysa	11.9	6.5	192	49 Lib	5.5	16h 00m 18s	-16° 32'
16.02.2023	04:20	(1) Ceres	7.4	5.0	64	34 Vir	6.1	12h 47m 12s	+11° 57'
21.02.2023	19:00	(27) Euterpe	11.1	6.0	165	14 Tau	6.1	03h 43m 48s	+19° 40'
21.02.2023	23:00	(2) Pallas	7.8	9.5	138	HIP 31131	6.5	06h 31m 54s	-18° 04'
22.02.2023	01:25	(96) Aegle	11.8	3.0	156	HIP 58264	6.5	11h 56m 54s	-13° 45'
25.02.2023	00:00	(30) Urania	11.9	6.5	274	72 Tau	5.5	04h 27m 18s	+23° 00'
25.02.2023	03:50	(96) Aegle	11.7	3.5	160	NGC 3962	10.6	11h 54m 58s	-13° 58'
25.02.2023	21:00	(532) Herculina	11.2	7.0	338	58 Tau	5.3	04h 20m 36s	+15° 06'
26.02.2023	21:00	(1) Ceres	7.2	3.0	283	NGC 4654	10.5	12h 44m 00s	+13° 08'
28.02.2023	04:10	(1) Ceres	7.2	4.5	57	NGC 4639	11.5	12h 42m 54s	+13° 15'

3.) Minorplanets: Close approaches by near-Earth objects with min. distance < 5 Lunar Distances LD and diam > 100m

Date	Time UT [hh:mm]	Asteroid (Ephemeris)	Min. distance [LD]	rel. speed [km/s]	Diameter [m]
03.02.2023	08:51	367789 (2011 AG5)	4.73	9.92	110 - 250
18.07.2023	09:59	(2020 UQ3)	3.12	9.30	45 - 100
17.09.2023	21:38	(2016 LY48)	4.33	11.05	77 - 170
17.10.2023	00:33	(1998 HH49)	3.05	14.79	140 - 320

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]
16.02.2023	00:46	199145 (2005 YY128)	11.96	24.65	570 - 1300
21.02.2023	18:56	37638 (1993 VB)	16.98	11.07	370 - 830
13.04.2023	19:08	436774 (2012 KY3)	12.44	17.55	540 - 1200
26.04.2023	03:43	2006 HV5	6.29	17.42	307
12.06.2023	00:53	488453 (1994 XD)	8.23	21.47	370 - 820

15.06.2023	02:05	(2020 DB5)	11.21	9.52	370 - 820
13.07.2023	13:42	490684 (2010 LL34)	30.04	21.42	350 - 780
03.08.2023	02:50	154993 (2005 EA94)	37.61	19.43	828

5.) Comets:

		Brightness [mag]	Constellation
Short periodic comets:			
	81P/Wild	11.0	Libra - Ophiuchus am 16.02. bei X Oph
	118P/Shoemaker-Levy	13.0	Cancer am Monatsende bei der Krippe
Long or not periodic comets:			
	C/2022 E3 (ZTF)	4.5 - 8.5	Camelopardalis - Auriga - Taurus am 06.02. bei Capella am 13.02. bei NGC 1647 (off. Sternhaufen) am 15.02. bei den Hyaden
	C/2019 U5 (Panstarrs)	12.5	Virgo am 26.02. bei NGC 4904
	C/2020 V2 (ZTF)	9.0	Cassiopeia - Andromeda
	C/2022 A2 (Panstarrs)	10 - 11	Cepheus - Cygnus - Lacerta am 24.02. bei IC 1434
Sources:	CNEOS MPC	JPL	