Oppositions of Asteroids: (1) Ceres and (4) Vesta from 2014 to 2035

OPPOSITIONS WITH SUN
From: 2014 Jan 01 To: 2035 Dec 31

Object	Date (UT1)	Geocentric R.A.	Declination	Diam.	Mag.
	d h m	h m s	° ' "	"	
Ceres	2014 Apr 15 5:38	13 53 45	+ 3 22 43	----	7.0
Ceres	2015 Jul 25 7:54	20 28 29	-30 09 35	----	7.5
Ceres	2016 Oct 21 5:16	2 03 05	- 1 08 45	----	7.4
Ceres	2018 Jan 31 12:51	9 13 08	+30 05 11	----	6.9
Ceres	2019 May 28 22:36	16 24 41	-17 42 17	----	7.0
Ceres	2020 Aug 28 12:08	22 54 14	-23 41 23	----	7.7
Ceres	2021 Nov 27 3:50	4 16 01	+16 46 22	----	7.0
Ceres	2023 Mar 21 7:41	12 29 07	+15 18 38	----	6.9
Ceres	2024 Jul 6 0:04	19 05 57	-29 15 58	----	7.3
Ceres	2025 Oct 2 13:16	0 59 13	-10 05 29	----	7.6
Ceres	2027 Jan 7 18:06	7 19 06	+29 56 11	----	6.8
Ceres	2028 May 6 20:21	15 08 15	- 7 46 14	----	7.0
Ceres	2029 Aug 10 20:04	21 42 28	-28 08 41	----	7.6
Ceres	2030 Nov 7 21:24	3 03 12	+ 7 26 29	----	7.2
Ceres	2032 Feb 24 11:39	10 55 26	+24 51 43	----	6.9
Ceres	2033 Jun 16 23:51	17 42 57	-24 58 49	----	7.0
Ceres	2034 Sep 14 22:34	23 57 21	-17 39 25	----	7.7
Ceres	2035 Dec 17 3:13	5 37 55	+24 41 01	----	6.8

Object	Date (UT1)	R.A.	Declination	Diam.	Mag.
	d h m	h m s	° ' "	"	
Vesta	2014 Apr 13 11:56	13 45 41	+ 2 46 01	----	5.8
Vesta	2015 Sep 29 3:28	0 39 59	- 8 45 57	----	6.2
Vesta	2017 Jan 18 0:38	8 03 18	+23 20 36	----	6.2
Vesta	2018 Jun 19 20:16	17 53 37	-19 47 26	----	5.3
Vesta	2019 Nov 12 8:56	3 19 12	+ 8 29 50	----	6.5
Vesta	2021 Mar 4 18:08	11 19 35	+16 01 01	----	6.0
Vesta	2022 Aug 22 18:55	22 20 39	-20 07 07	----	5.8
Vesta	2023 Dec 21 18:56	5 58 27	+20 32 54	----	6.4
Vesta	2025 May 2 6:28	14 52 57	- 4 19 26	----	5.6
Vesta	2026 Oct 13 6:24	1 31 30	- 3 13 07	----	6.3
Vesta	2028 Jan 31 11:17	9 00 39	+22 38 58	----	6.2
Vesta	2029 Jul 10 3:16	19 19 19	-23 09 44	----	5.3
Vesta	2030 Nov 24 9:08	4 06 27	+12 57 49	----	6.5
Vesta	2032 Mar 20 12:01	12 21 19	+11 01 59	----	5.9
Vesta	2033 Sep 8 15:45	23 27 18	-15 33 04	----	6.0
Vesta	2035 Jan 2 11:00	6 51 24	+22 27 23	----	6.3

Red type indicates the current year, 2025. The yellow bands for Vesta indicate when the magnitude is brighter than 6, and the corresponding declination.

Vesta was observed with unaided eyes by Joe Stieber on April 6, 2014, at Batsto, about +3° declination. It was not seen during the bright 2018 or 2022 oppositions but note the nominal -20° declinations. In 2025, the declination will be mildly negative.

Table prepared with the U.S. Naval Observatory's MICA 2.2.2 software.