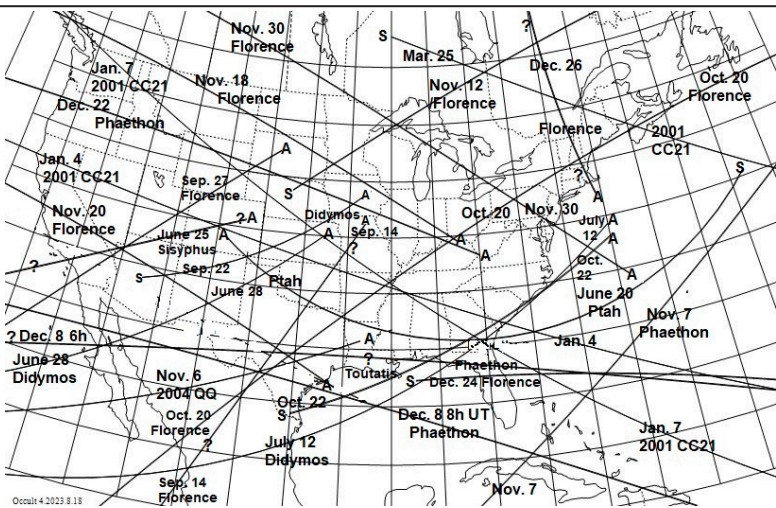


FIGURE 2—2024 OCCULTATIONS BY NEAR-EARTH ASTEROIDS



refine the orbit to allow more accurate predictions of future events that can then be covered by only a few observers. For a good example of a first effort, see the bottom of p. 251. More about the 2024 NEA occultations, including campaign plans, will be available at occultations.org/publications/rasc/2024/nam24NEAoccs.htm.

Some of the mapped NEA occultations have uncertain paths due to a poor *Gaia* astrometric solution for the star. I have identified those problem events with “?” added usually near the ends of the paths on the NEA occultations map (Figure 2, above). For these events, only those near the path should try it, only from convenient home locations; no mobile efforts should be made for them. The dates of these events are given in the information about the asteroids given below.

TABLE 2—2024 OCCULTATIONS BY NEAR-EARTH ASTEROIDS

Date	UT	Occulting Body	Star	Mag.	RA (2000)			Dec	Dur.		Path
					h	m	s	° ' "	ΔMag.	s	
Jan. 4	05:41	98943 2001 CC21	TYC 2390-00255-1	9.5	05 15 29.2	+31 48 03	7.8	0.10	SC-CA		
Jan. 7	08:10	98943 2001 CC21	UCAC4 611-017927	12.0	05 04 44.1	+32 08 28	5.5	0.11	GA-BC		
Mar. 25	01:40	98943 2001 CC21	UCAC4 624-022444	11.8	05 23 23.1	+34 45 05	7.8	0.12	ON-NS		
Jun. 20	05:35	5011 Ptah	TYC 7404-05785-1	11.4	18 12 46.2	-36 42 50	8.0	0.11	GA-CO		
Jun. 25	07:05	1866 Sisyphus	TYC 4974-00442-1	11.6	13 55 19.0	-06 38 53	3.8	0.46	CO-CA		
Jun. 28	09:35	65803 Didymos	UCAC4 317-188802	11.9	18 27 38.6	-26 44 55	6.7	0.10	KS-Baja		
Jul. 12	06:23	65803 Didymos	TYC 6850-02664-1	11.2	18 00 23.3	-27 49 45	7.6	0.10	NC-Mex		
Sep. 14	02:23	3122 Florencia	UCAC4 302-124834	9.5	17 17 39.8	-29 47 06	5.0	0.31	Mex-MO		
Sep. 22	02:32	65803 Didymos	TYC 6853-03502-1	11.8	17 58 46.2	-29 12 59	8.0	0.09	AZ-IA		
Sep. 27	03:58	3122 Florencia	UCAC4 371-110913	11.4	17 55 51.5	-15 52 36	3.2	0.29	CA-SD		
Oct. 20	01:55	3122 Florencia	UCAC4 498-103066	10.7	19 00 48.7	+09 27 37	3.9	0.29	Mex-NS		
Oct. 22	00:57	4179 Toutatis	UCAC4 335-187231	12.1	18 46 28.9	-23 09 11	6.3	0.15	TX-NC		
Nov. 6	02:24	175114 2004 QG	UCAC4 378-144292	12.0	18 58 39.6	-14 27 21	6.1	0.05	Baja-LA		
Nov. 7	01:38	3200 Phaethon	UCAC4 648-021940	10.0	04 47 05.9	+39 35 40	7.1	0.30	BS-Cuba		
Nov. 12	00:27	3122 Florencia	TYC 2671-00075-1	11.4	20 09 35.9	+30 17 58	3.4	0.31	NE-QC		
Nov. 18	05:18	3122 Florencia	TYC 2693-01730-1	10.7	20 30 58.7	+34 49 38	4.1	0.30	BC-OH		
Nov. 20	05:20	3122 Florencia	TYC 2698-01552-1	11.3	20 38 16.6	+36 11 19	3.6	0.30	CA-TX		
Nov. 30	04:26	3122 Florencia	UCAC4 662-094547	8.2	21 18 09.1	+42 13 21	6.7	0.29	AB-NJ		
Dec. 8	06:59	3200 Phaethon	TYC 2334-00124-1	11.1	02 57 48.0	+34 04 52	5.3	0.22	FL-Baja		
Dec. 8	08:14	3200 Phaethon	TYC 2334-00386-1	12.6	02 57 36.5	+34 03 38	3.7	0.22	DO-Baja		
Dec. 22	08:11	3200 Phaethon	TYC 1764-00040-1	9.4	02 13 34.2	+27 56 40	7.2	0.25	WV-OR		
Dec. 24	23:47	3122 Florencia	TYC 3648-01960-1	9.3	23 26 05.7	+51 28 60	6.0	0.25	FL		
Dec. 26	06:54	3122 Florencia	TYC 3649-00666-1	10.2	23 33 40.3	+51 42 34	5.1	0.25	QC-MA		