

Der Komet 7P/Pons-Winnecke im Jahre 2021

berechnet für den Standort Mitteldeutschland

Die Bahnelemente:

Periheldurchgang	2021-Mai-27.0831000
Bahnexzentrizität	0.6385450
Periheldistanz	1.2344290 aE
große halbe Bahnachse	3.415166 aE
Umlaufzeit in Jahren	6.311405
Länge des aufsteigenden Knotens	93.380300 Grad
Perihellänge	172.571200 Grad
Bahnneigung	22.364400 Grad
Grundhelligkeit	9.0 mag.
Luminiszenzfaktor	4.00

Details zur Sichtbarkeit

größte Sonnennähe:	1.23443 aE am 27.05.2021
größte Erdnähe :	0.44211 aE am 12.06.2021
größte Helligkeit:	8.2 am 07.06.2021

Grenzgröße der Analyse: 16.0

ab 08.10.2020 morgens sichtbar mit Helligkeit 16.0
positioniert im Sternbild LEO, Helligkeit 16.0

ab 30.10.2020 Übergang ins Sternbild COM, Helligkeit 15.5

ab 30.11.2020 Übergang ins Sternbild VIR, Helligkeit 14.7

ab 20.12.2020 Übergang ins Sternbild BOO, Helligkeit 14.1

ab 27.01.2021 Beginn des Analysezeitraums

ab 01.02.2021 Übergang ins Sternbild SER, Helligkeit 12.5

ab 25.02.2021 Übergang ins Sternbild HER, Helligkeit 11.5

ab 12.03.2021 Übergang ins Sternbild OPH, Helligkeit 10.9

ab 19.04.2021 Übergang ins Sternbild AQL, Helligkeit 9.3

ab 19.05.2021 Übergang ins Sternbild AQR, Helligkeit 8.4

ab 31.05.2021 Übergang ins Sternbild CAP, Helligkeit 8.2

ab 08.06.2021 Übergang ins Sternbild AQR, Helligkeit 8.2

ab 21.06.2021 Übergang ins Sternbild PSA, Helligkeit 8.3 [Komet horizontnah beobachtbar]

ab 27.06.2021 unsichtbar mit Helligkeit 8.4 [Komet unbeobachtbar]

ab 28.06.2021 Übergang ins Sternbild SCL, Helligkeit 8.4 [Komet unbeobachtbar]

ab 15.07.2021 Übergang ins Sternbild PHE, Helligkeit 8.9 [Komet unbeobachtbar]

ab 17.07.2021 zirkumpolar mit Helligkeit 9.0 [Komet unbeobachtbar]

ab 18.09.2021 Übergang ins Sternbild GRU, Helligkeit 11.5 [Komet unbeobachtbar]

ab 24.09.2021 Ende des Analysezeitraums

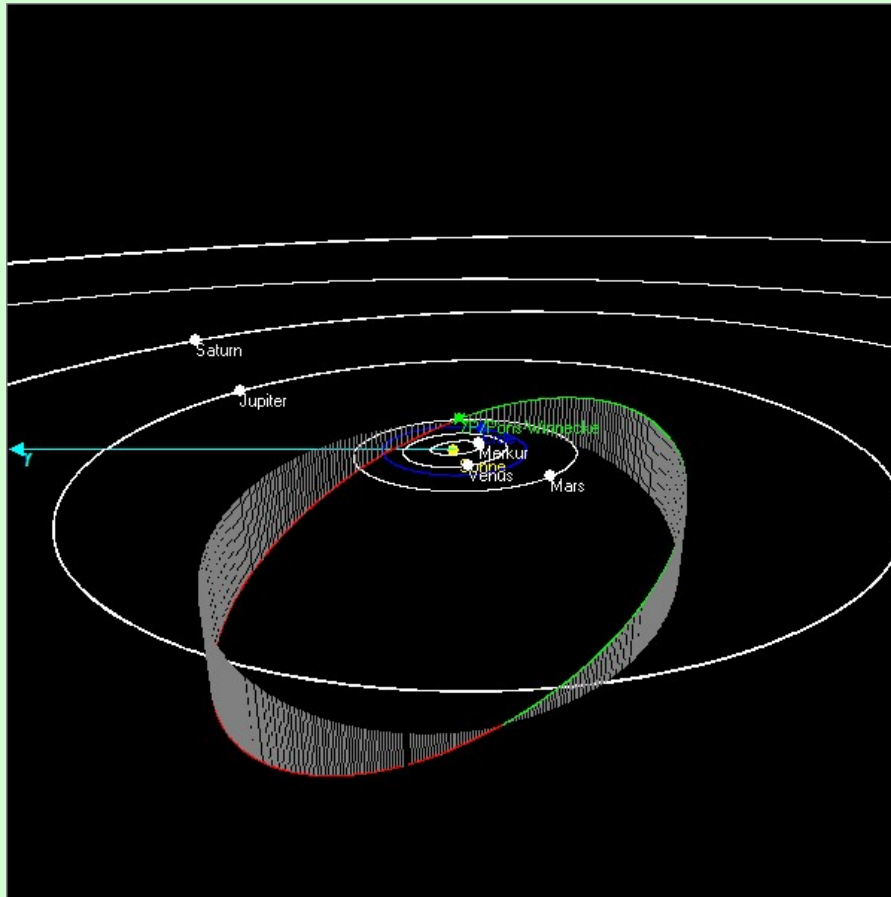
ab 25.10.2021 unsichtbar mit Helligkeit 13.0 [Komet unbeobachtbar]

ab 06.11.2021 abends sichtbar mit Helligkeit 13.5 [Komet horizontnah beobachtbar]

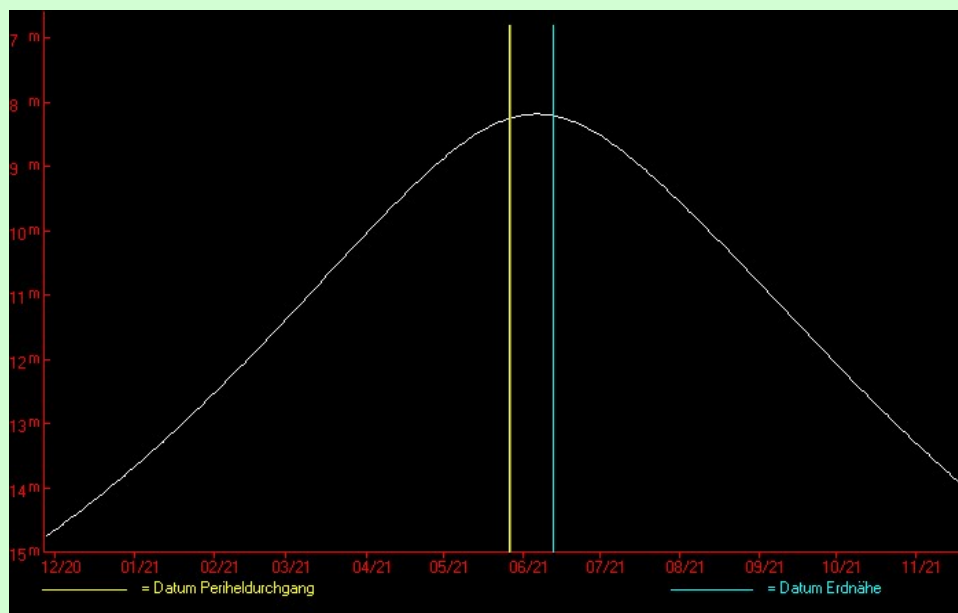
ab 09.11.2021 Übergang ins Sternbild SCL, Helligkeit 13.6 [Komet horizontnah beobachtbar]

ab 20.12.2021 Übergang ins Sternbild CET, Helligkeit 14.9

Der Komet 7P/Pons-Winnecke im Jahre 2021 berechnet für den Standort Mitteldeutschland



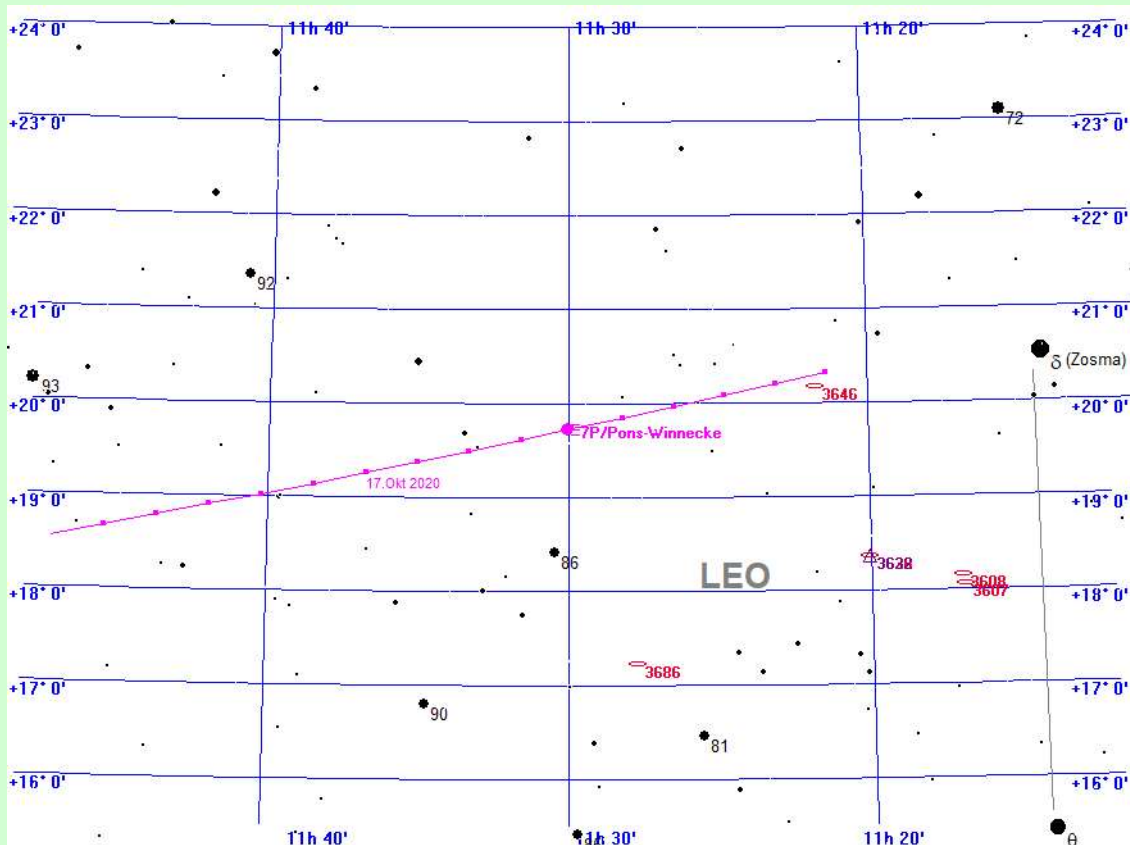
Die Bahn des Kometen 7P/Pons-Winnecke



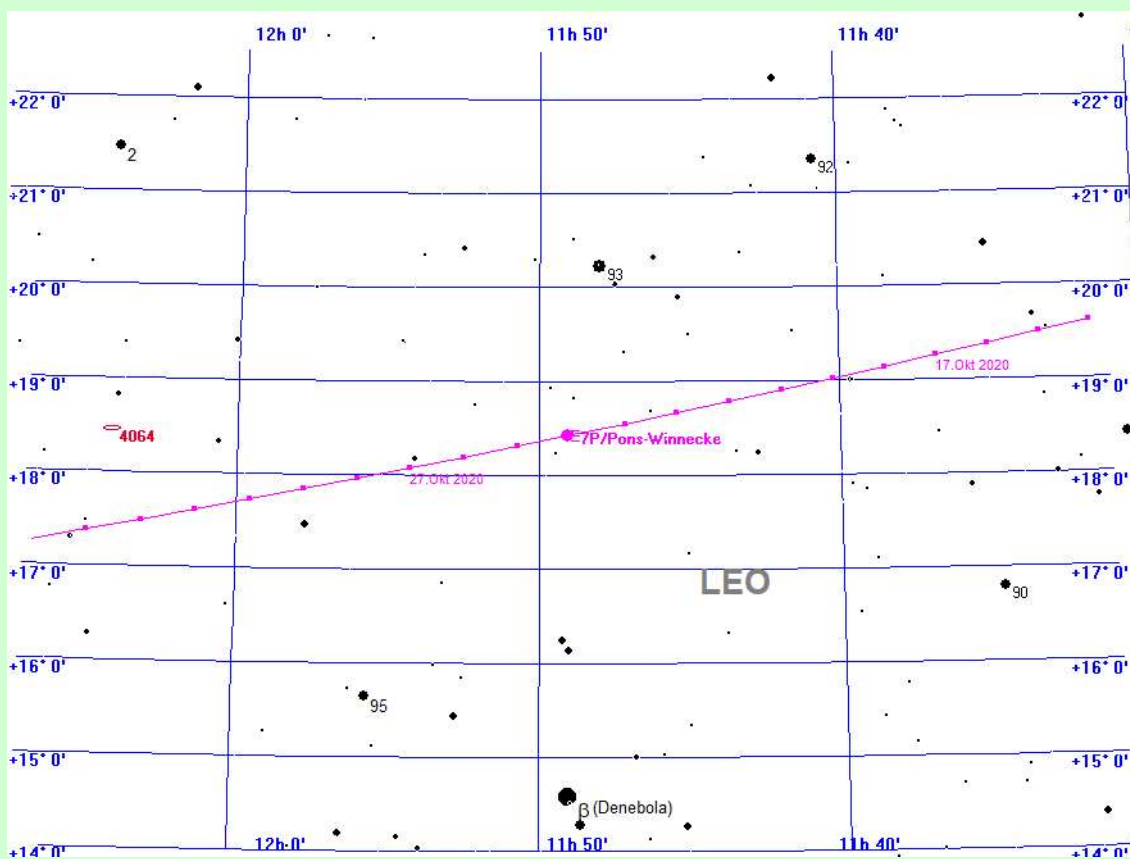
Die Lichtkurve des Kometen 7P/Pons-Winnecke

Der Komet 7P/Pons-Winnecke im Jahre 2021

berechnet für den Standort Mitteldeutschland

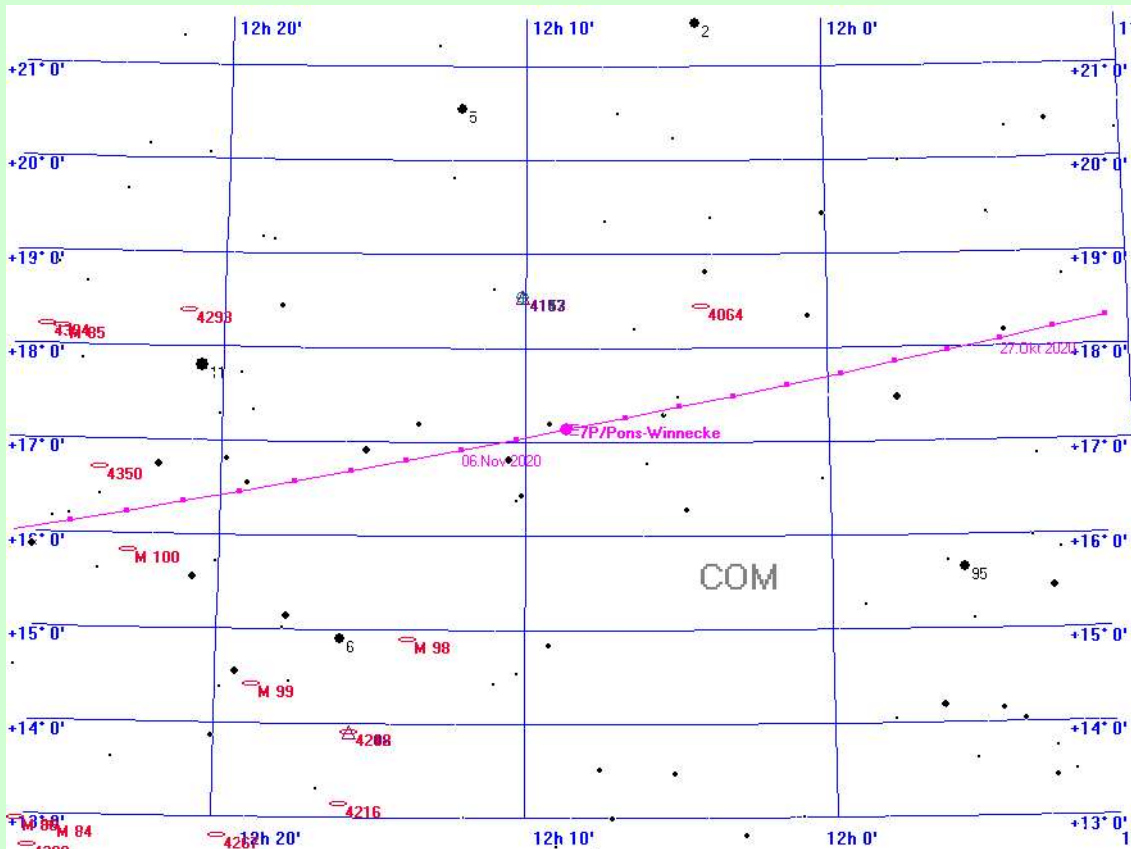


7P/Pons-Winnecke am 13.10.2020

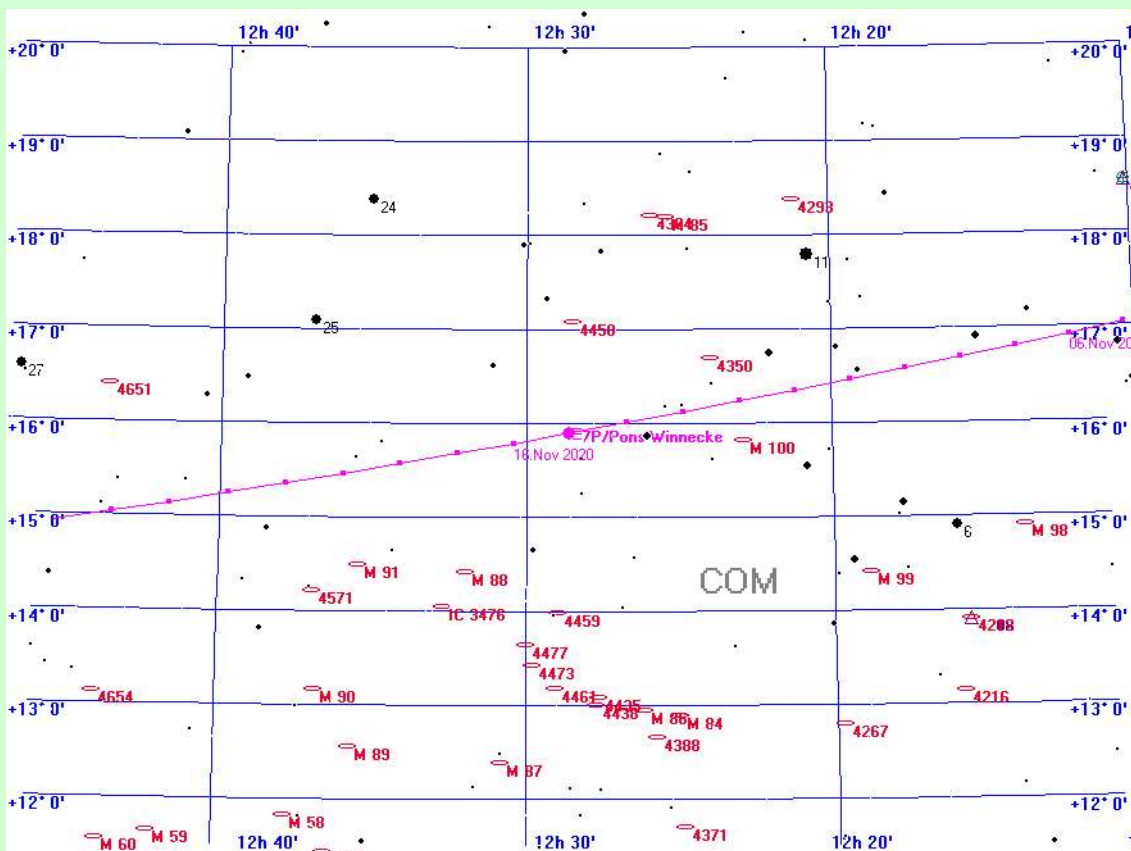


7P/Pons-Winnecke am 24.10.2020

berechnet für den Standort Mitteldeutschland

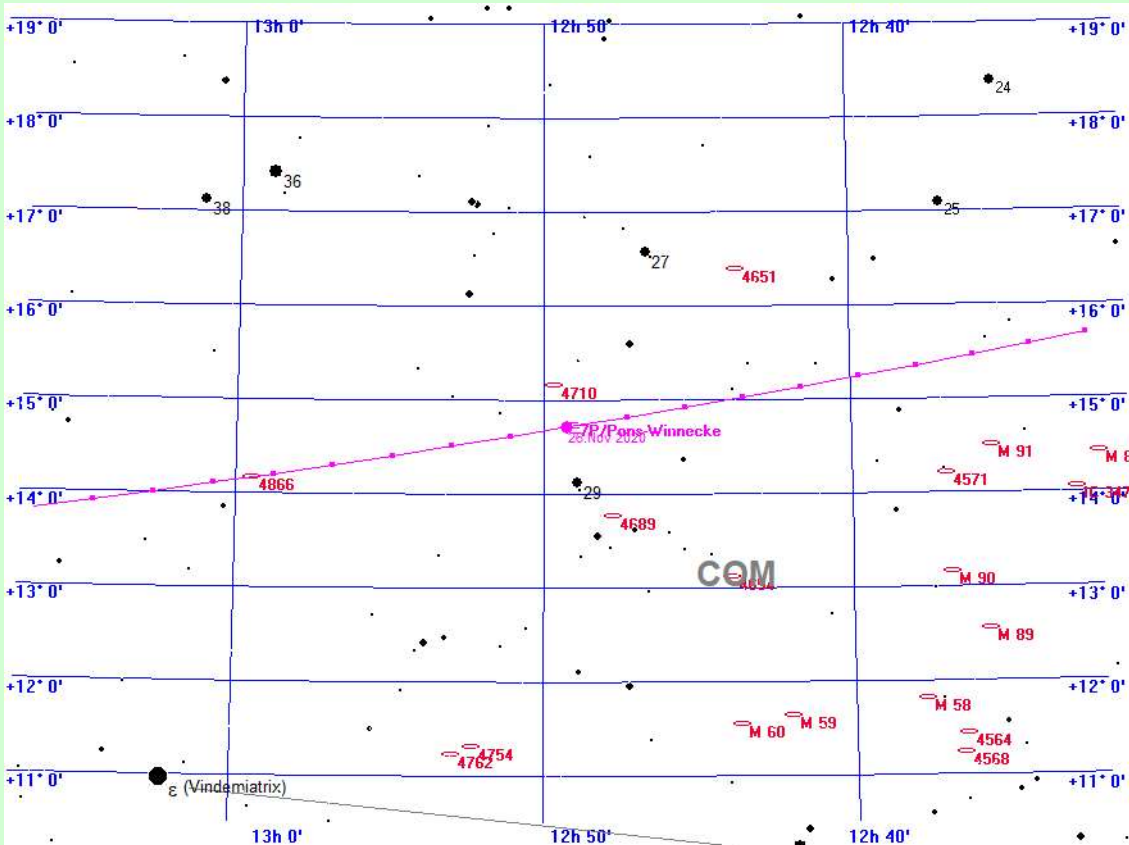


7P/Pons-Winnecke am 4.11.2020

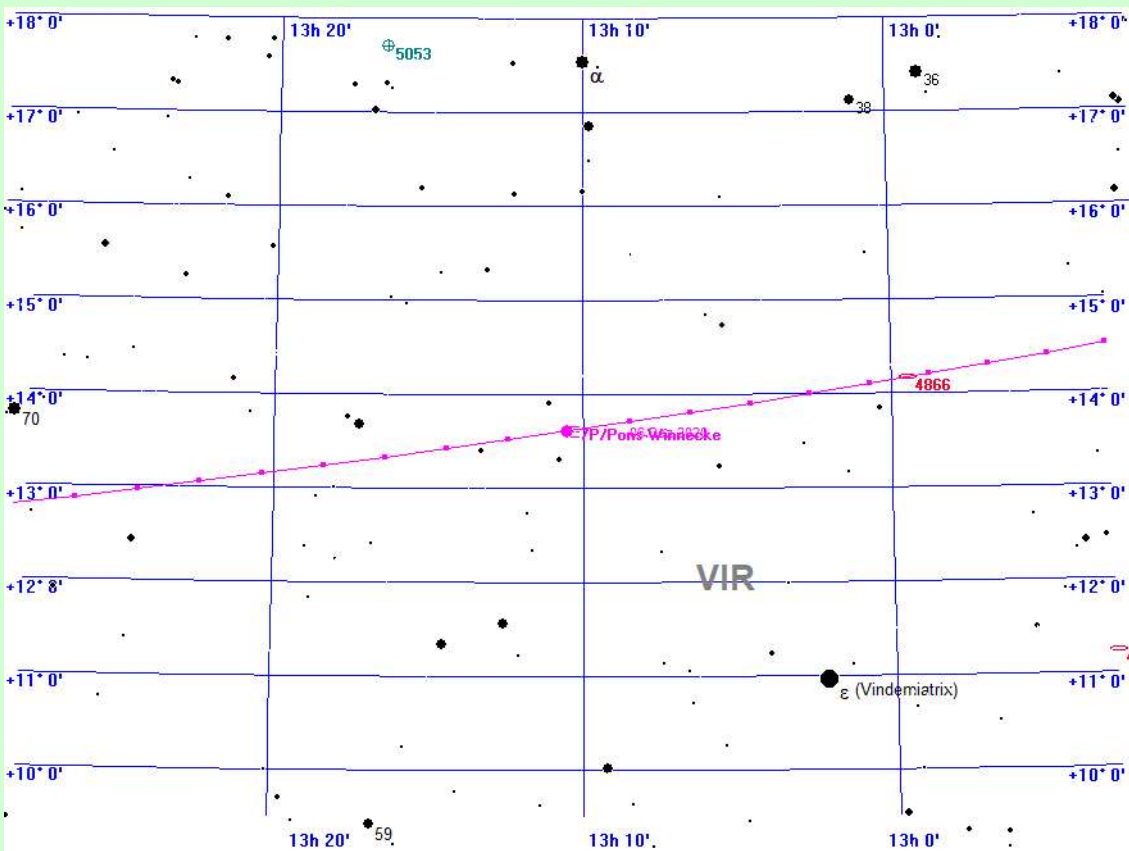


7P/Pons-Winnecke am 15.11.2020

berechnet für den Standort Mitteldeutschland

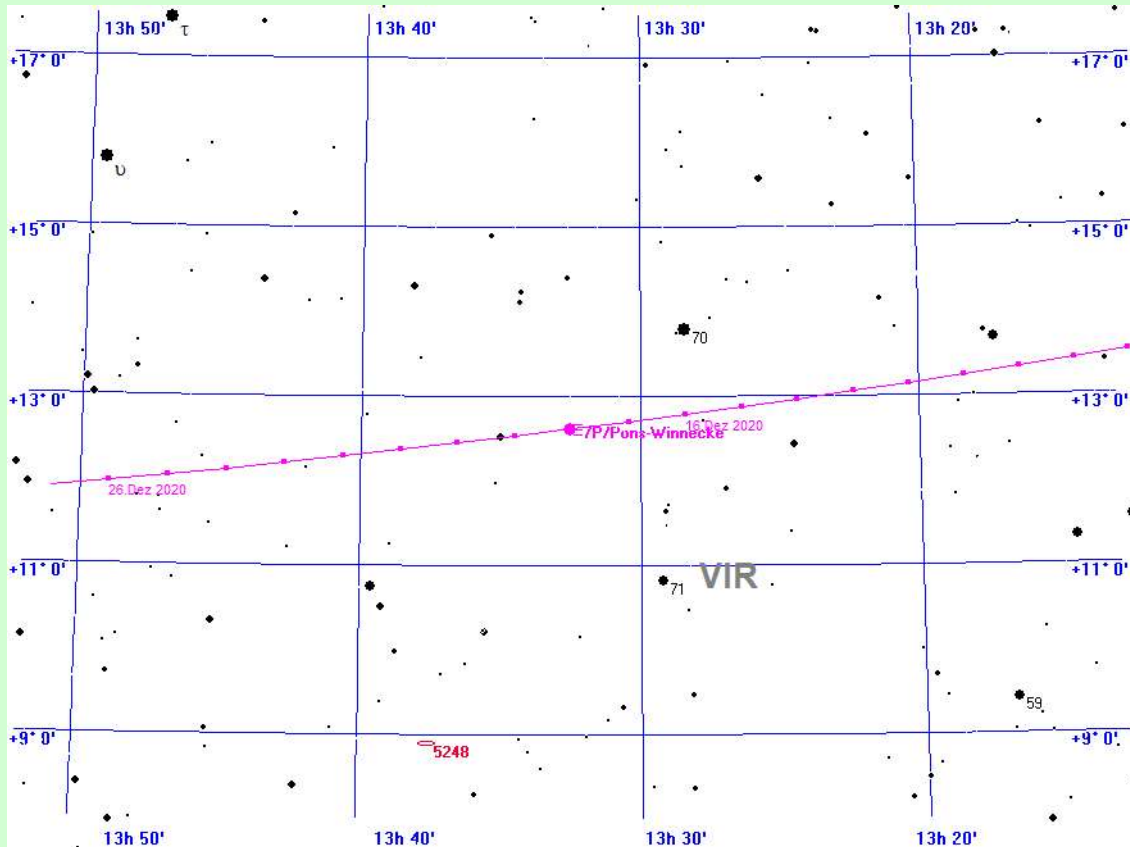


7P/Pons-Winnecke am 26.11.2020

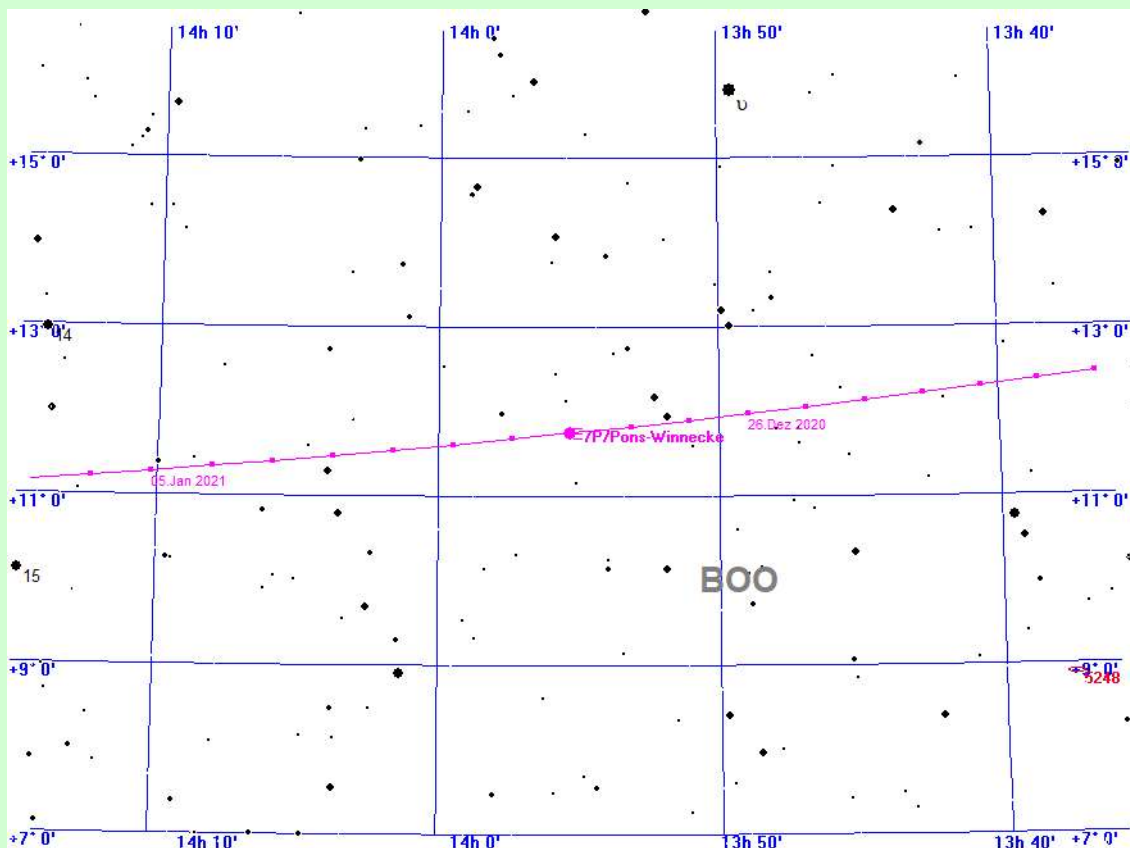


7P/Pons-Winnecke am 7.12.2020

Der Komet 7P/Pons-Winnecke im Jahre 2021 berechnet für den Standort Mitteldeutschland

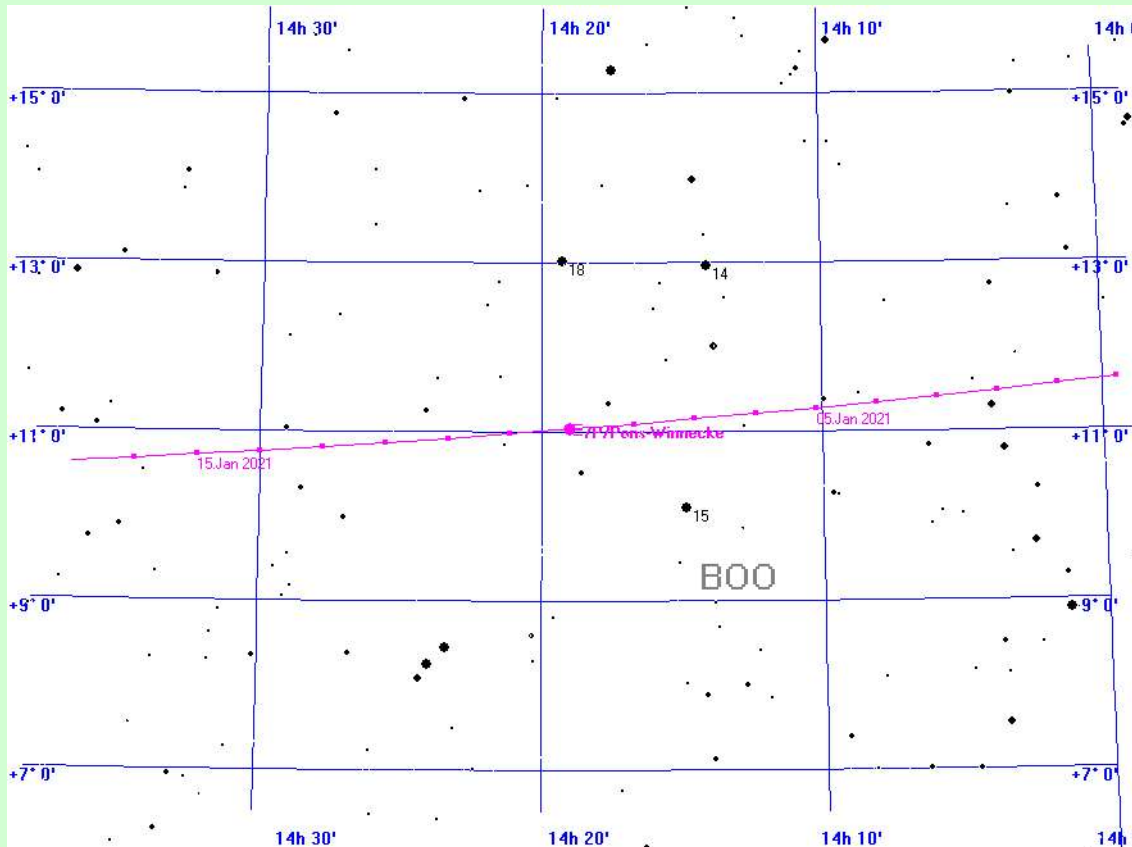


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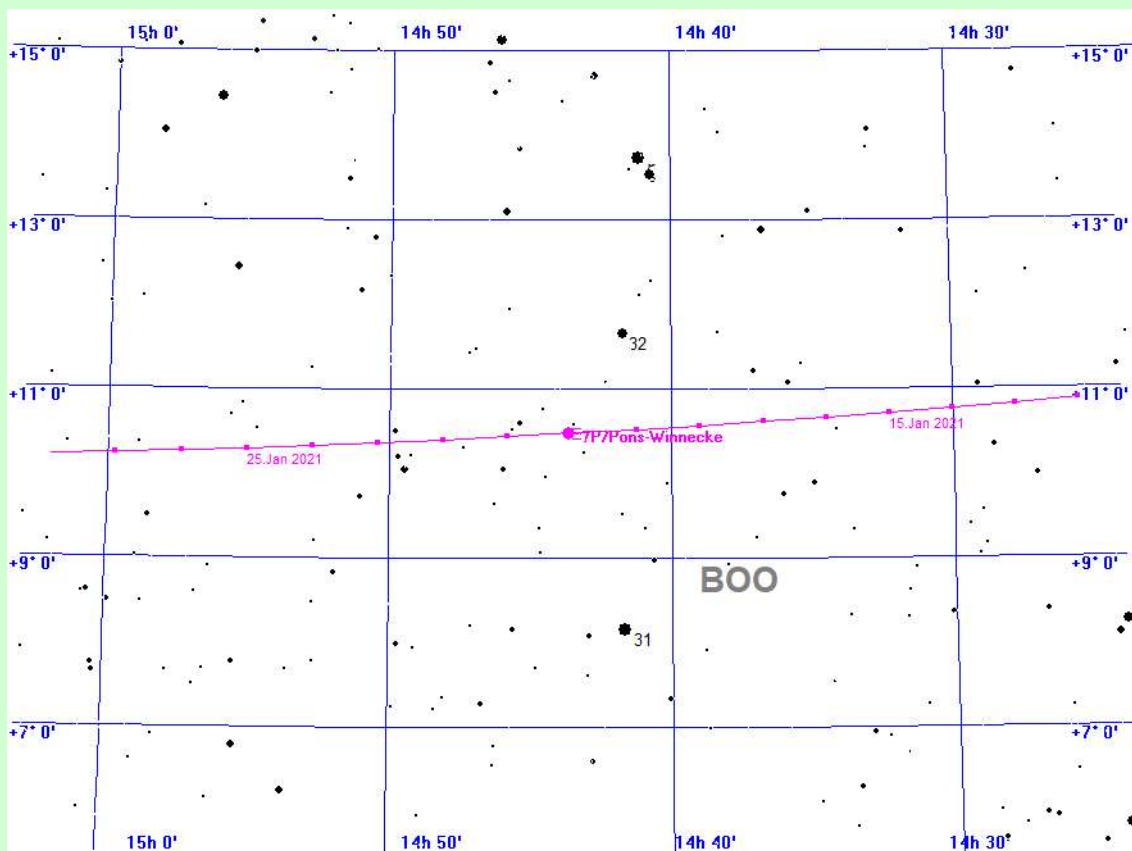


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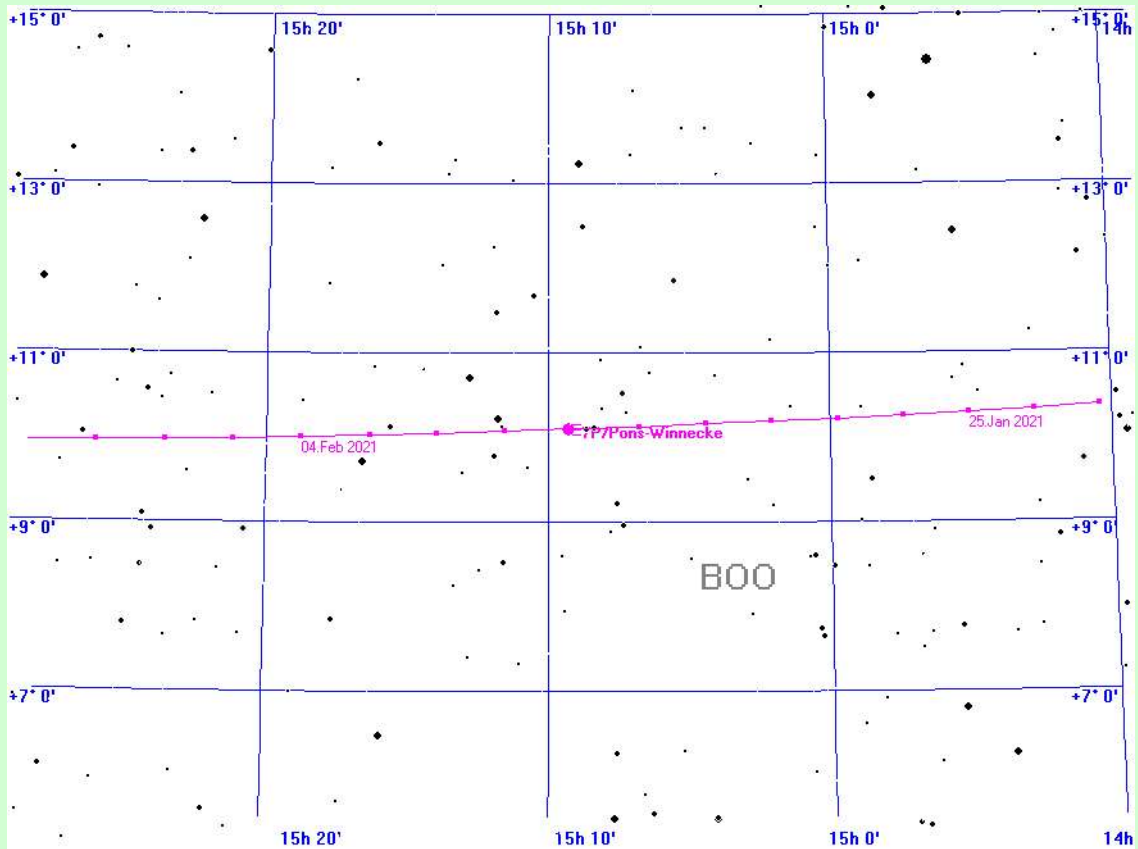


7P/Pons-Winnecke am 9.1.2021

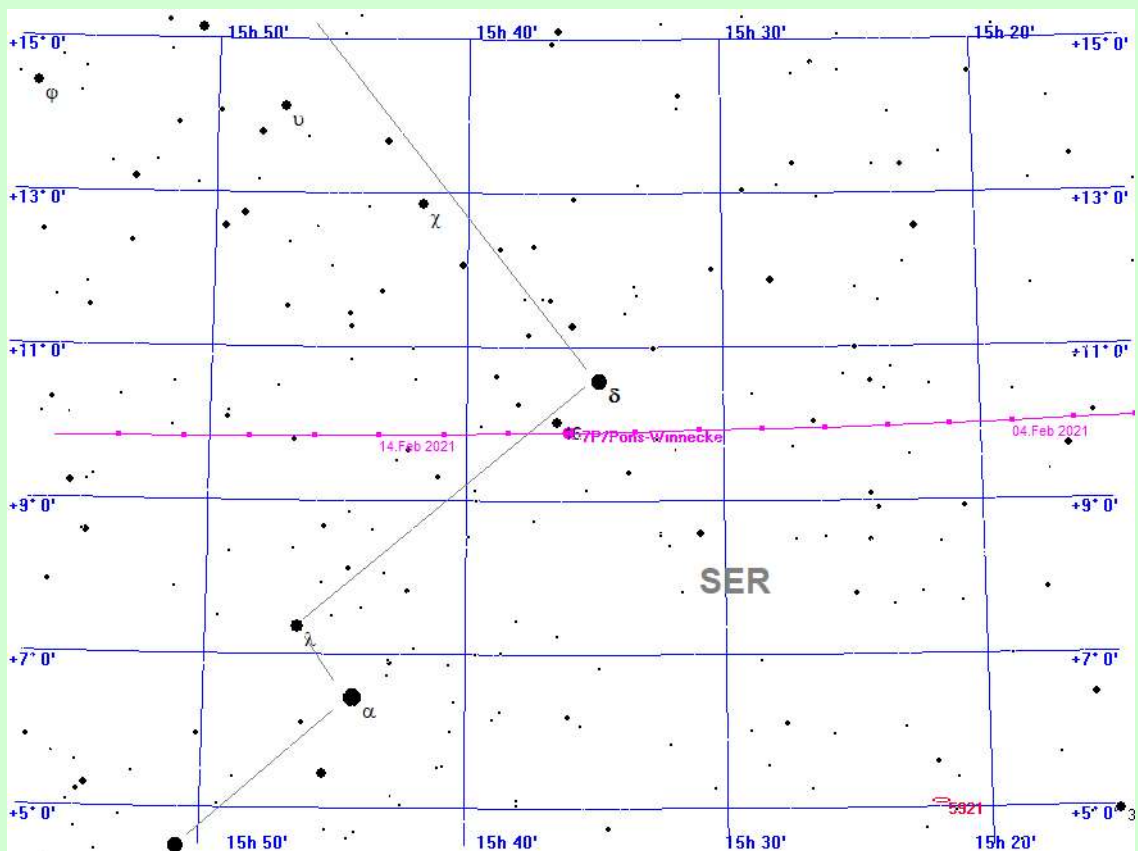


7P/Pons-Winnecke am 20.1.2021

Der Komet 7P/Pons-Winnecke im Jahre 2021 berechnet für den Standort Mitteldeutschland

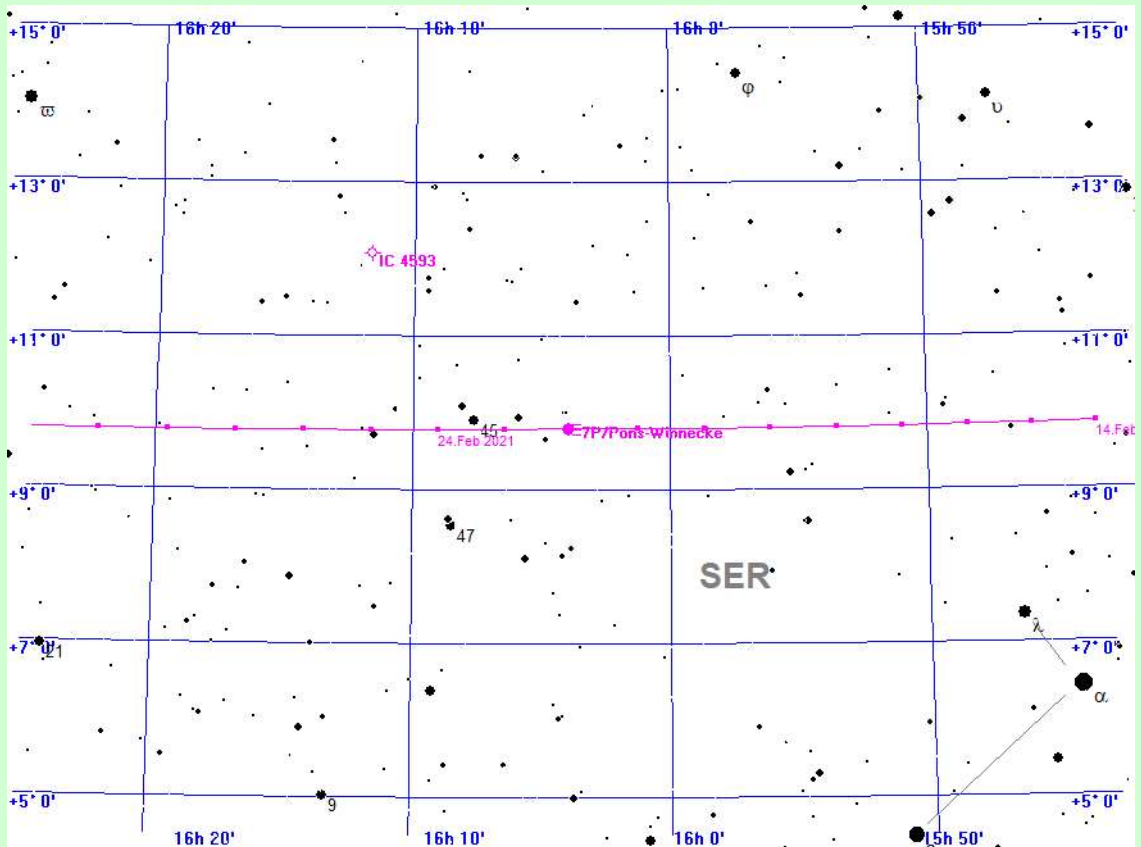


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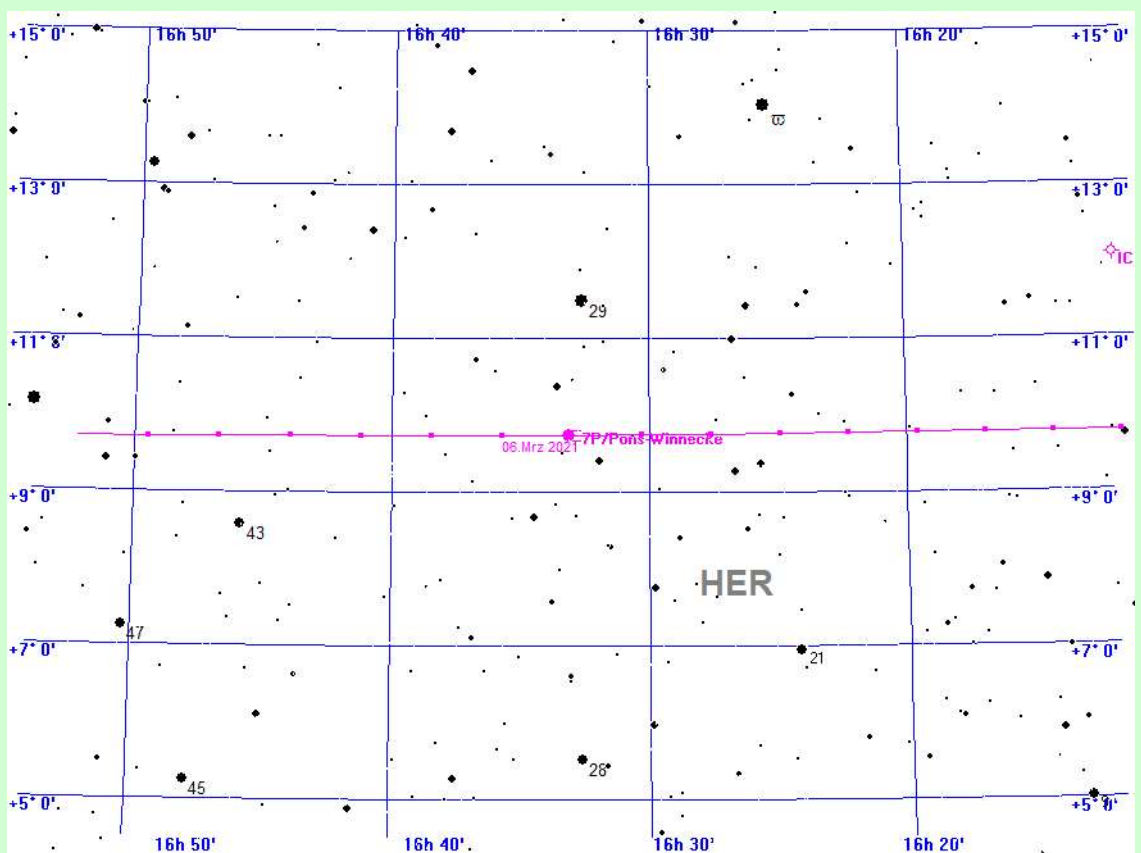


7P/Pons-Winnecke am 11.2.2021

Der Komet 7P/Pons-Winnecke im Jahre 2021 berechnet für den Standort Mitteldeutschland

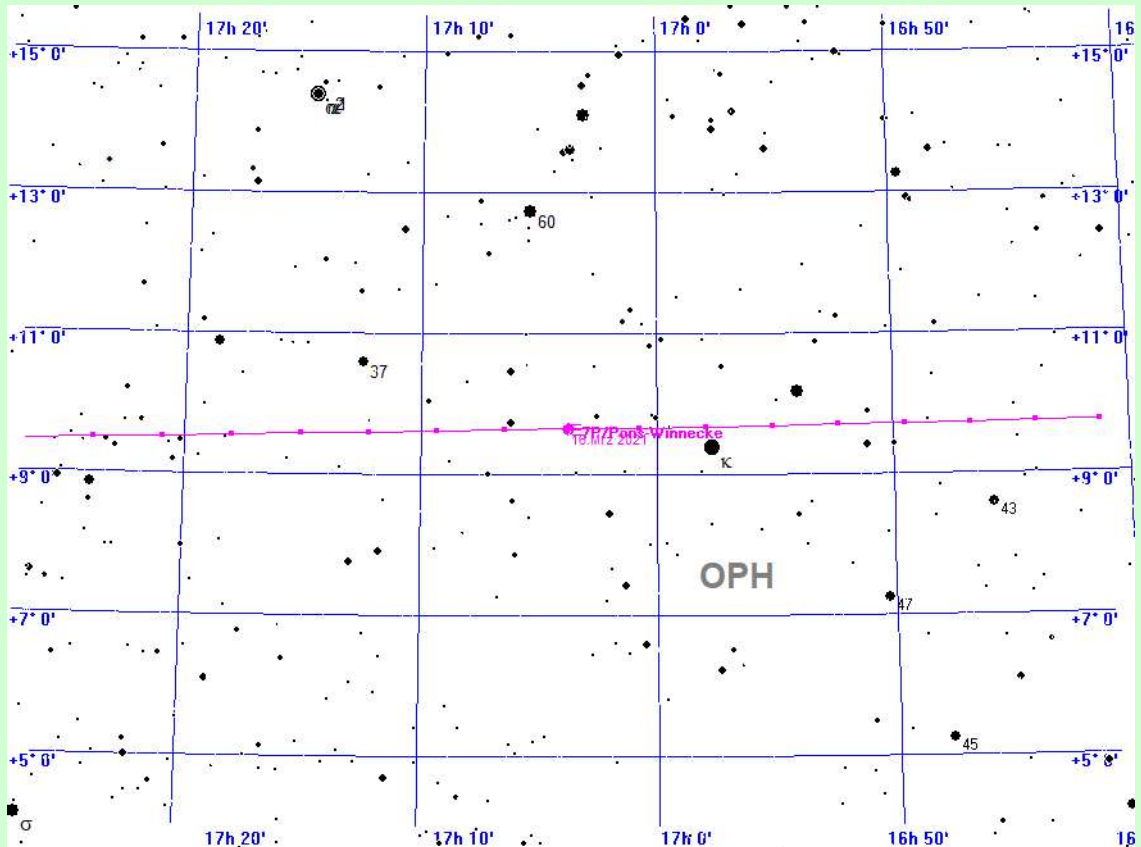


7P/Pons-Winnecke am 22.2.2021

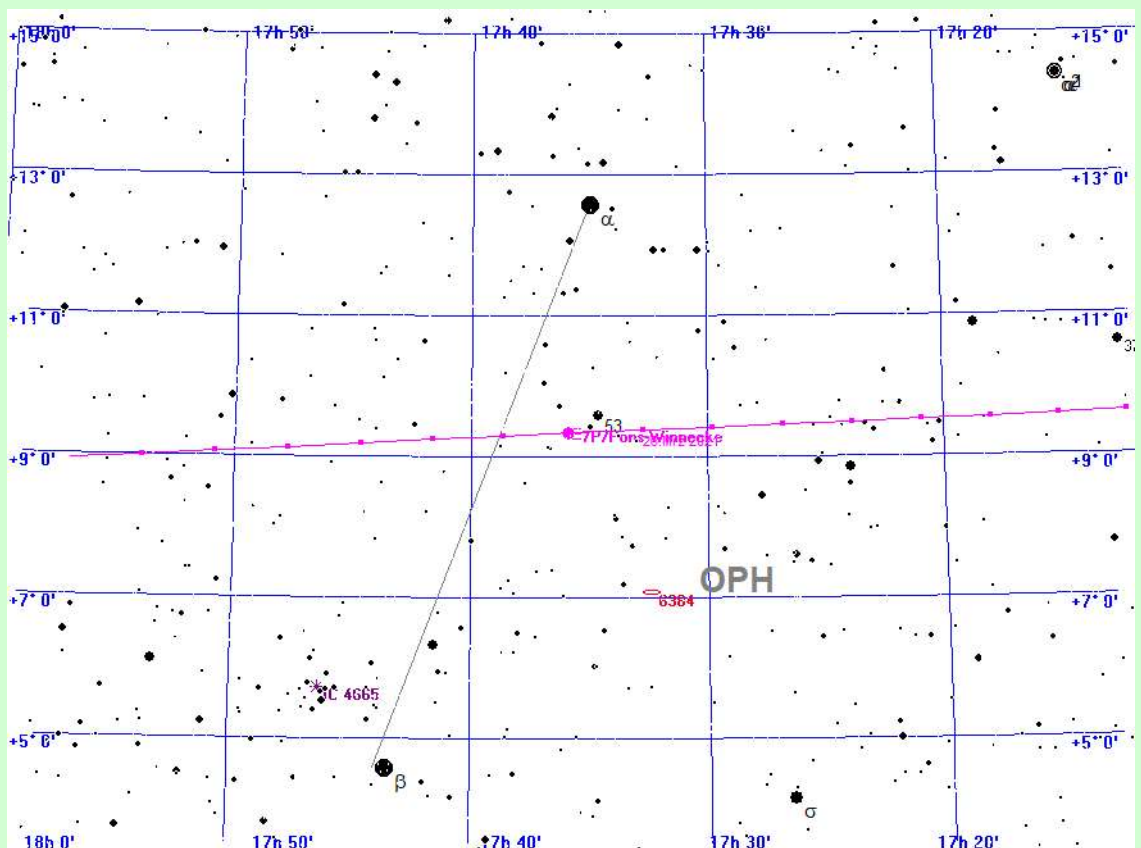


7P/Pons-Winnecke am 5.3.2021

Der Komet 7P/Pons-Winnecke im Jahre 2021 berechnet für den Standort Mitteldeutschland

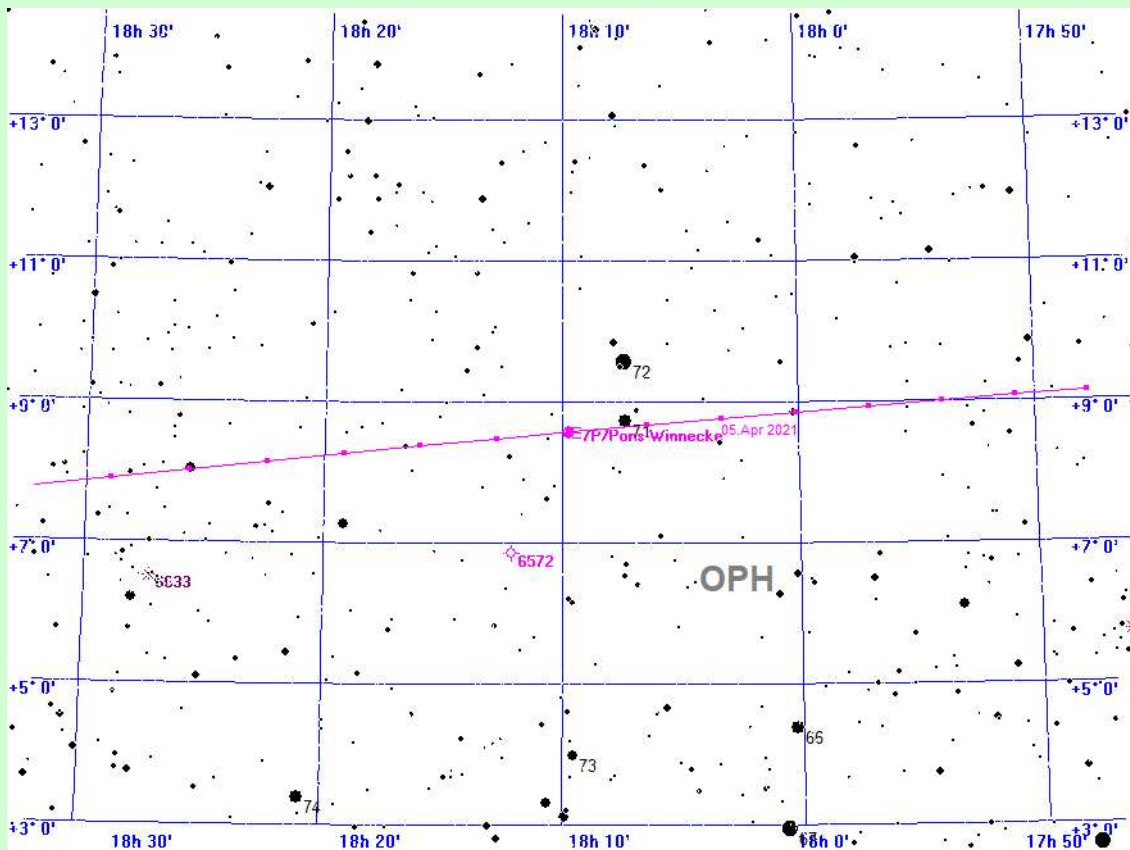


7P/Pons-Winnecke am 16.3.2021

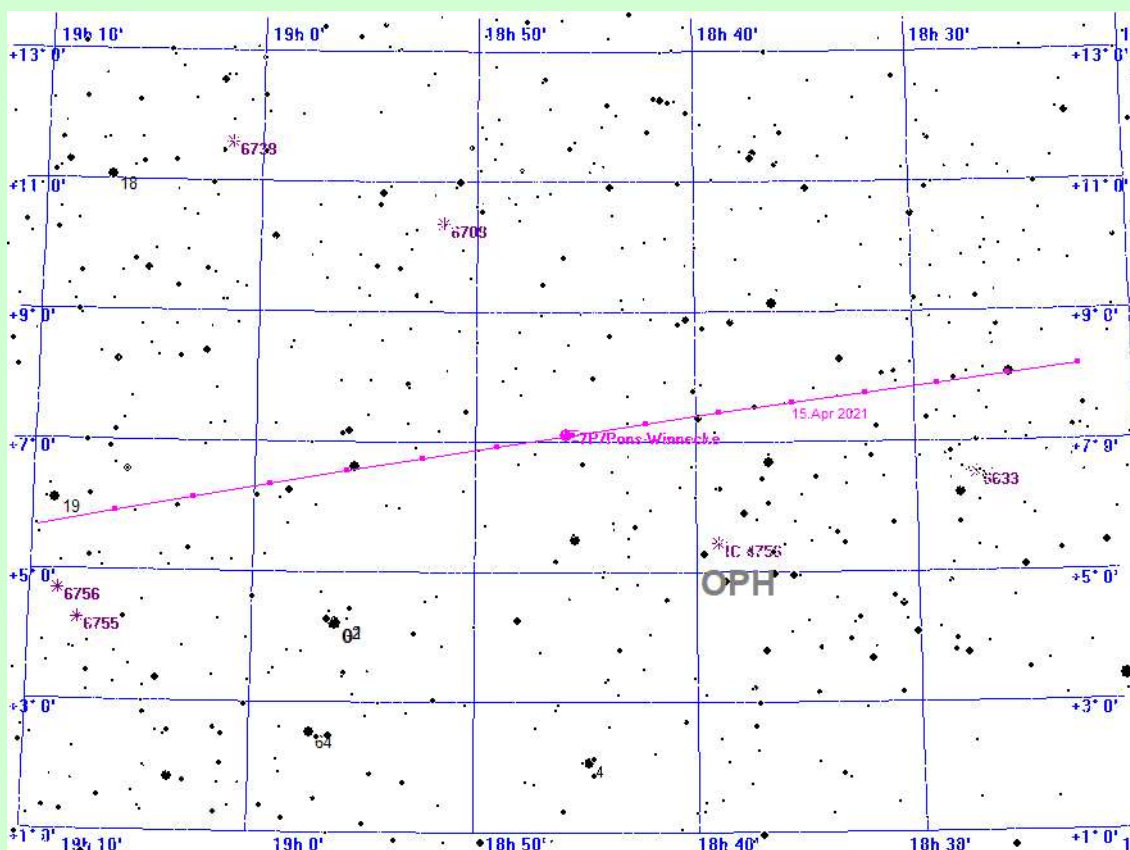


7P/Pons-Winnecke am 27.3.2021

Der Komet 7P/Pons-Winnecke im Jahre 2021 berechnet für den Standort Mitteldeutschland

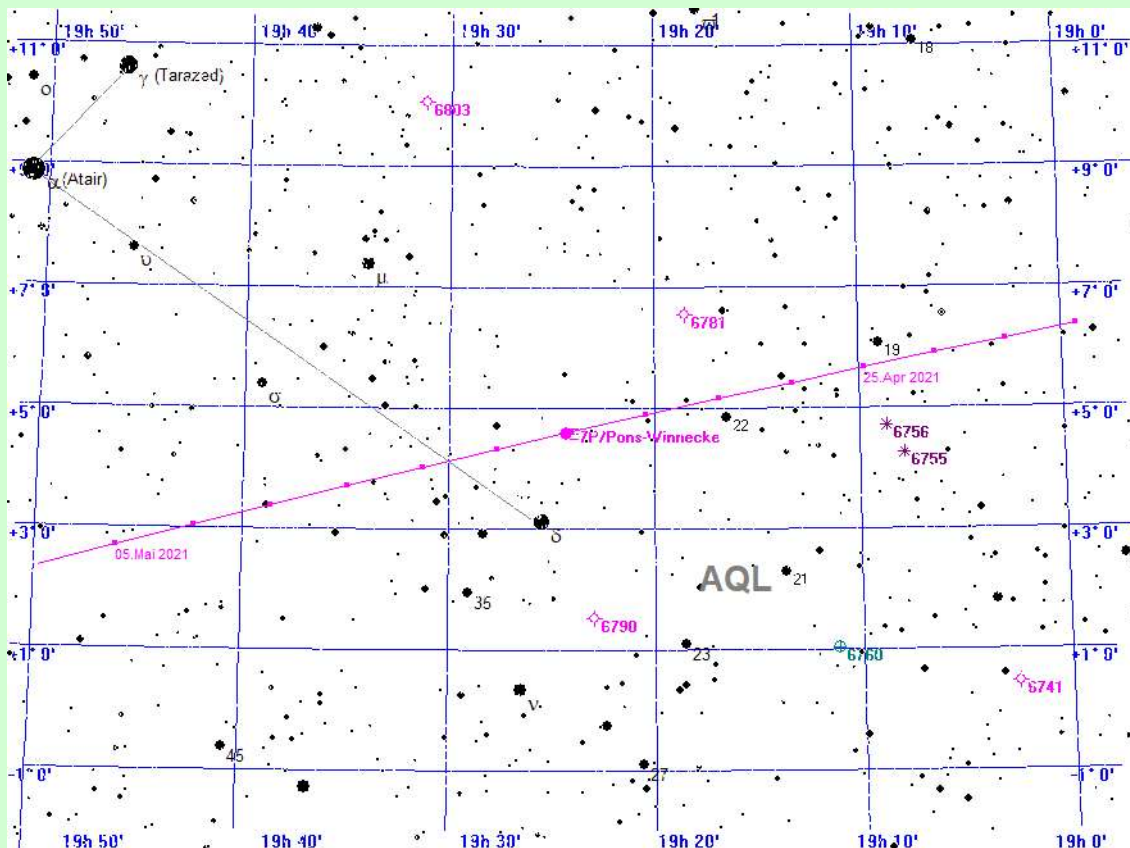


7P/Pons-Winnecke am 7.4.2021

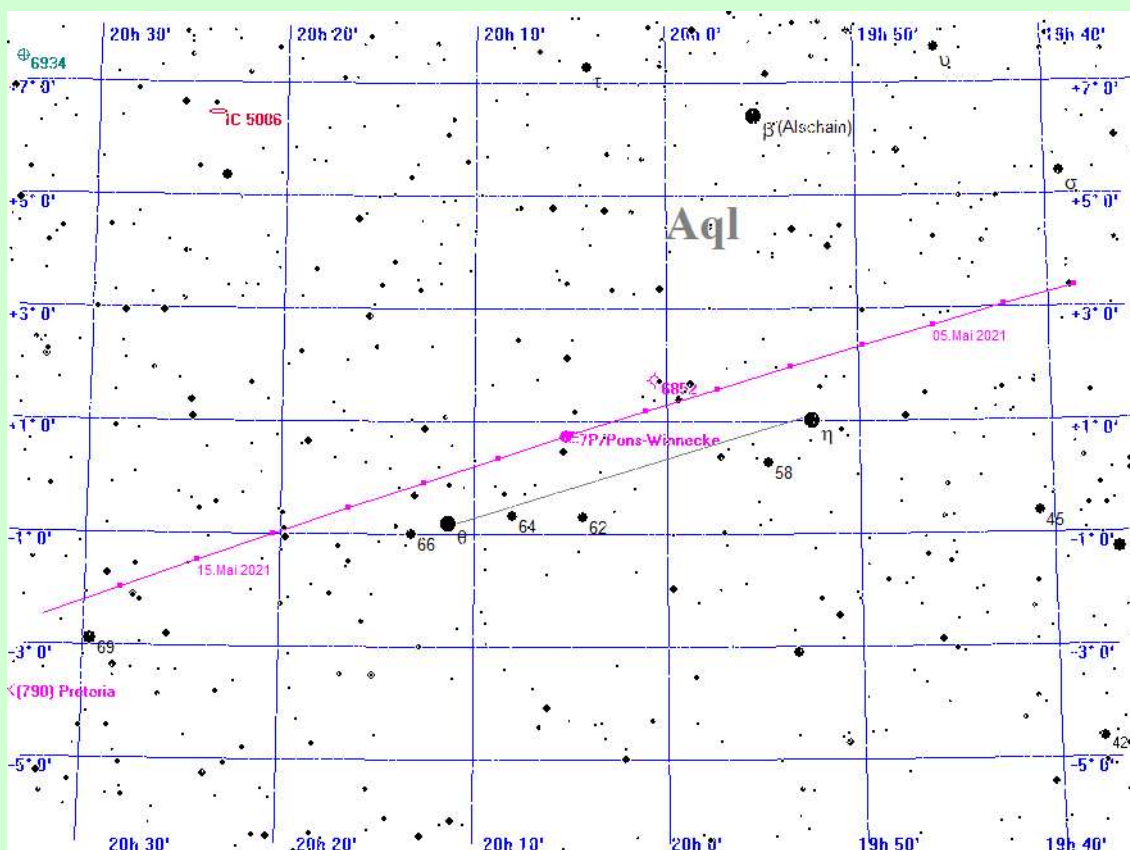


7P/Pons-Winnecke am 18.4.2021

Der Komet 7P/Pons-Winnecke im Jahre 2021 berechnet für den Standort Mitteldeutschland

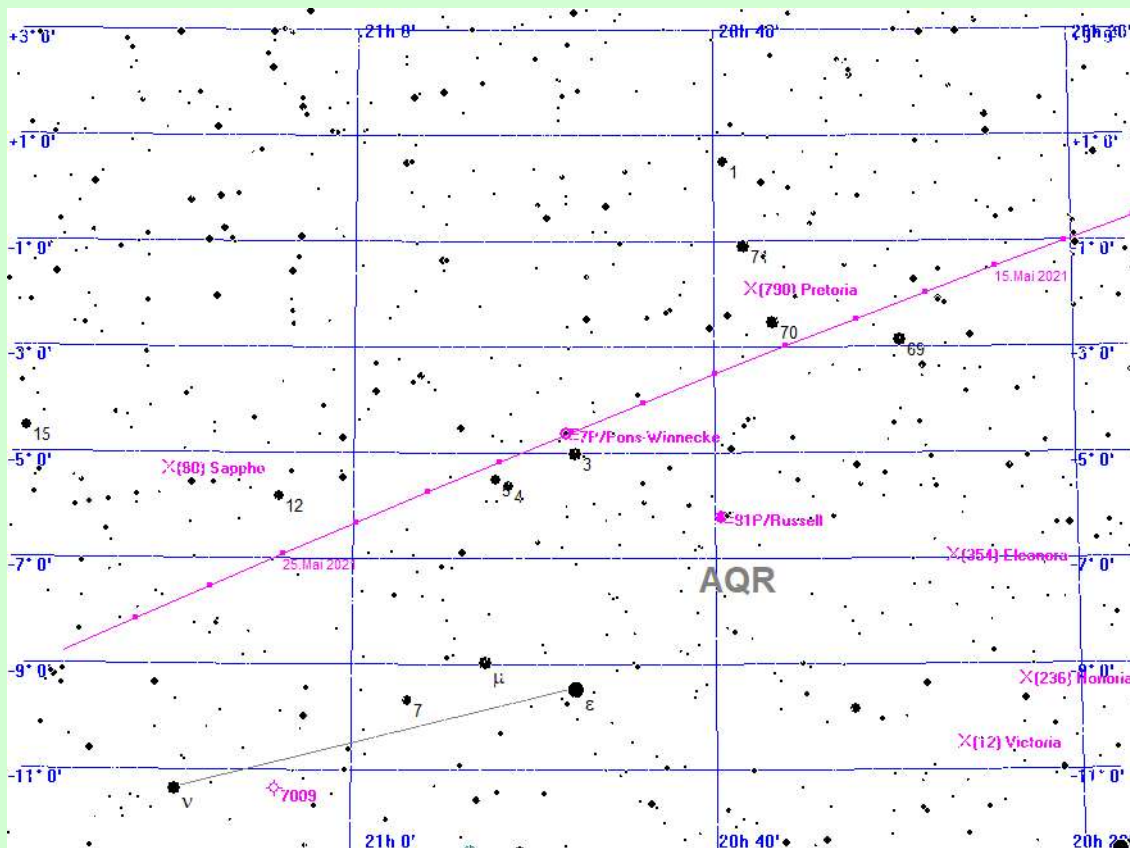


7P/Pons-Winnecke am 29.4.2021

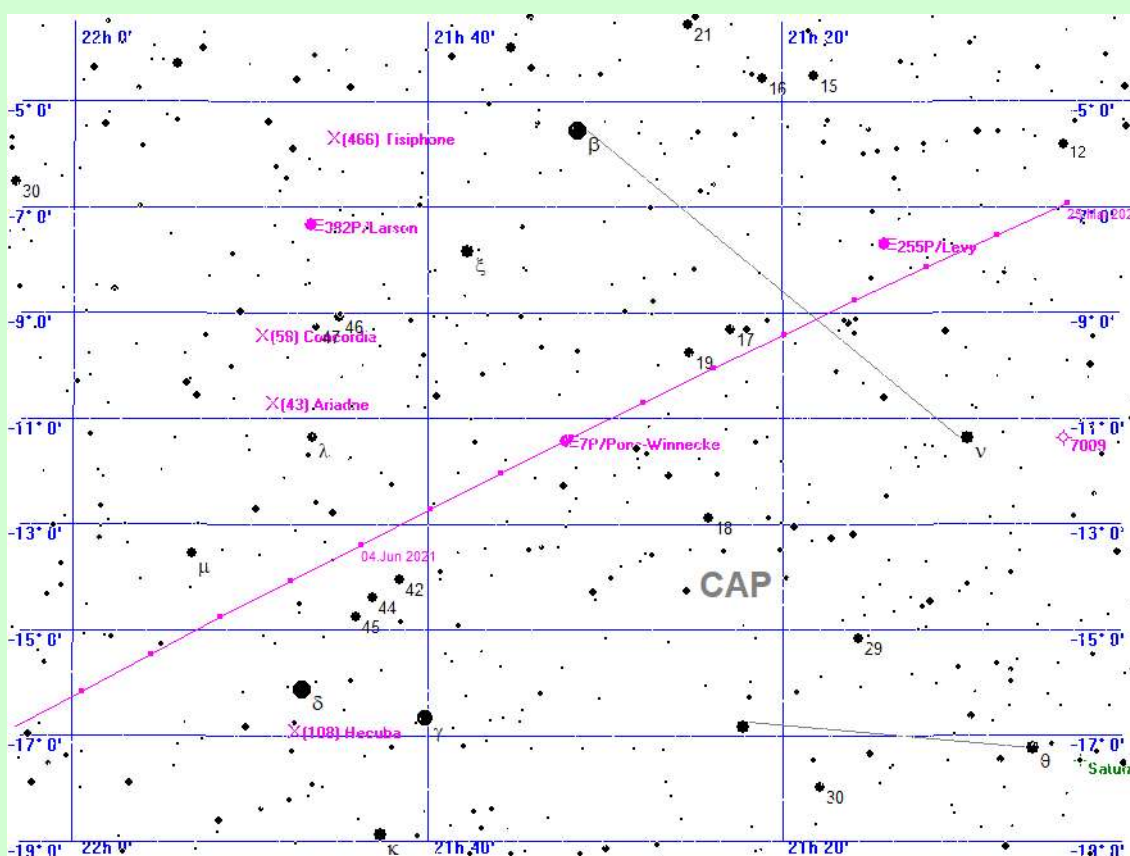


7P/Pons-Winnecke am 10.5.2021

Der Komet 7P/Pons-Winnecke im Jahre 2021 berechnet für den Standort Mitteldeutschland



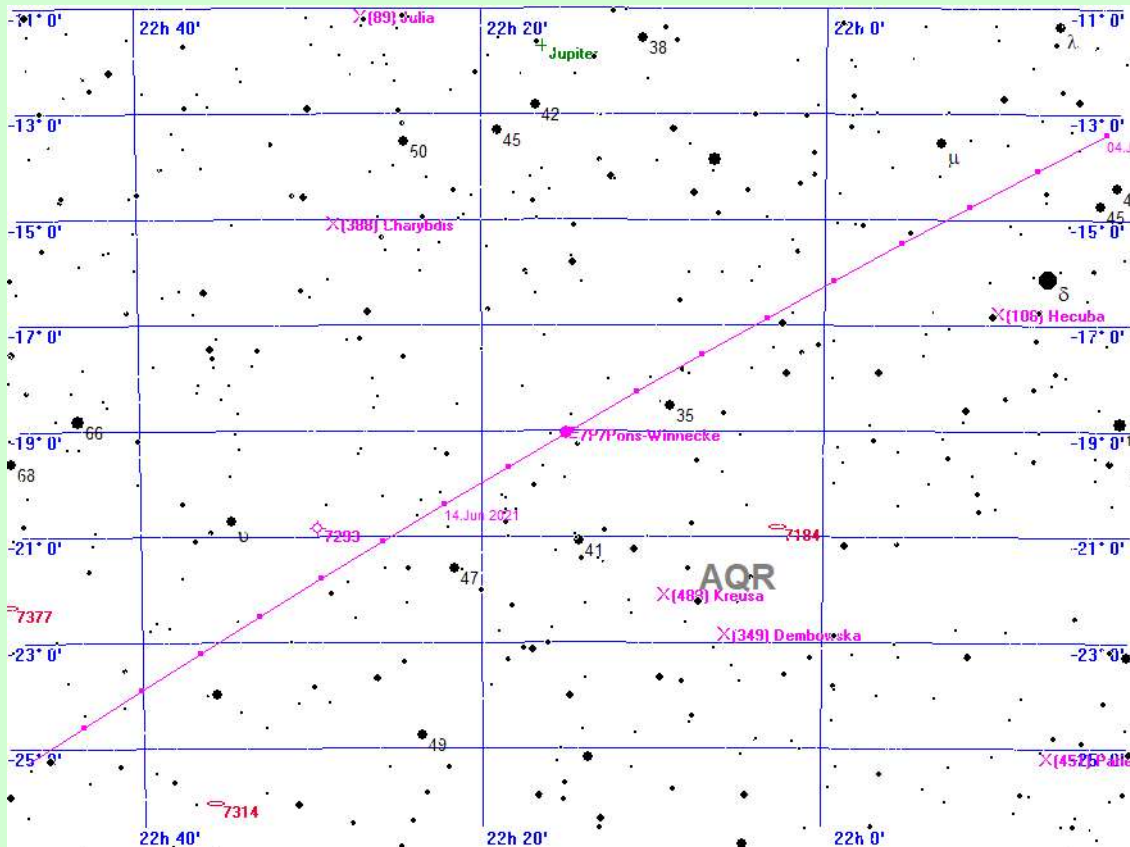
7P/Pons-Winnecke am 21.5.2021



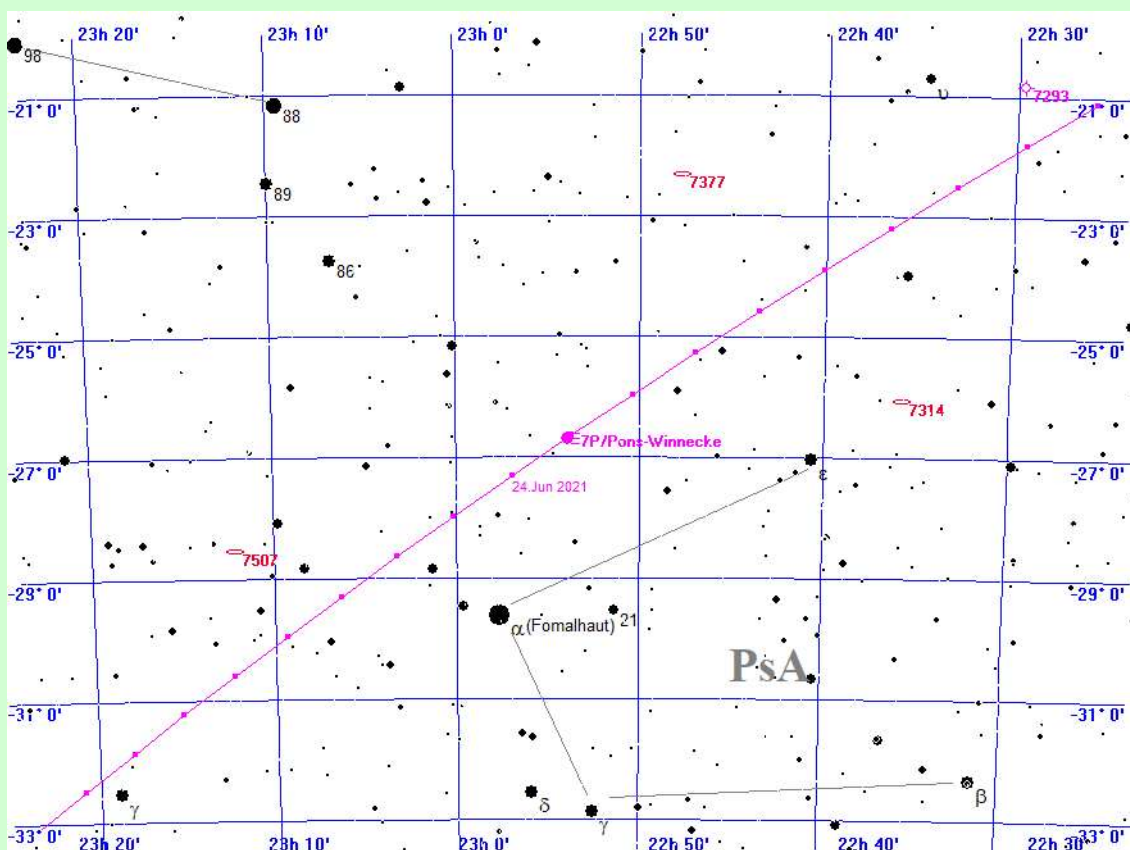
7P/Pons-Winnecke am 1.6.2021

Der Komet 7P/Pons-Winnecke im Jahre 2021

berechnet für den Standort Mitteldeutschland

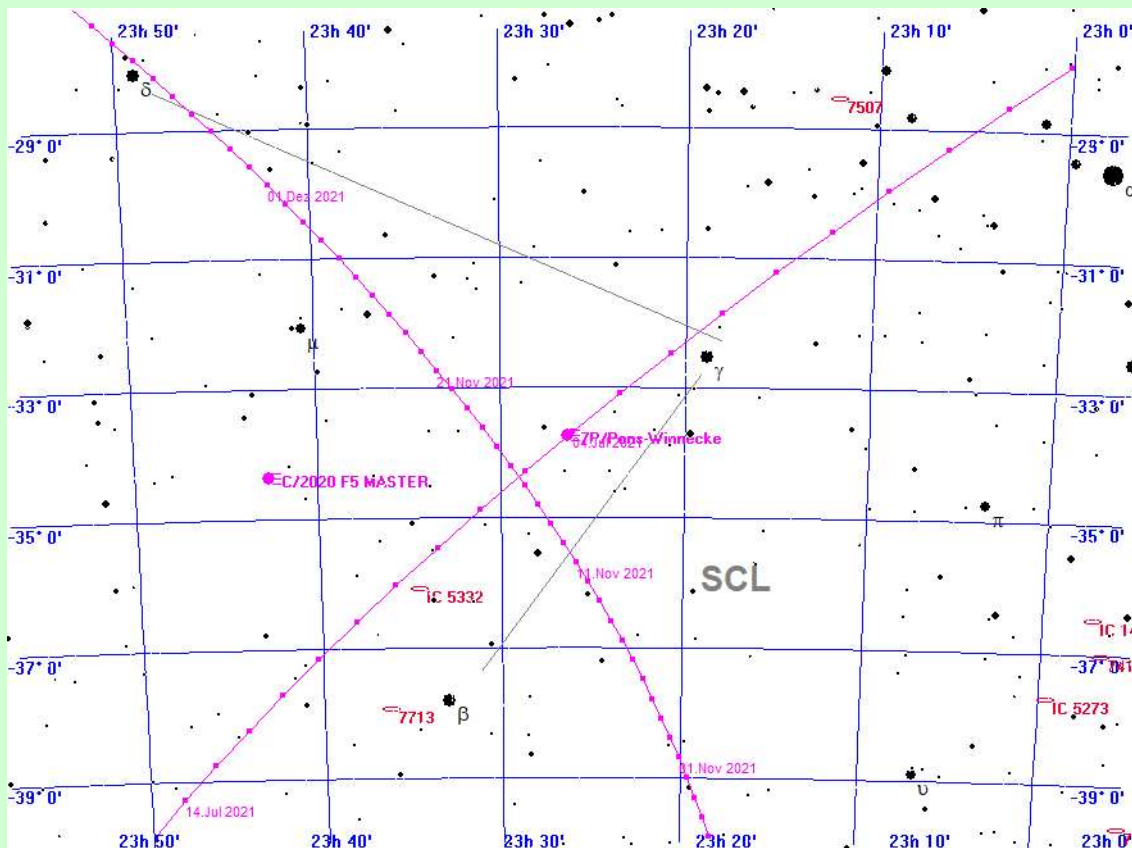


7P/Pons-Winnecke am 12.6.2021

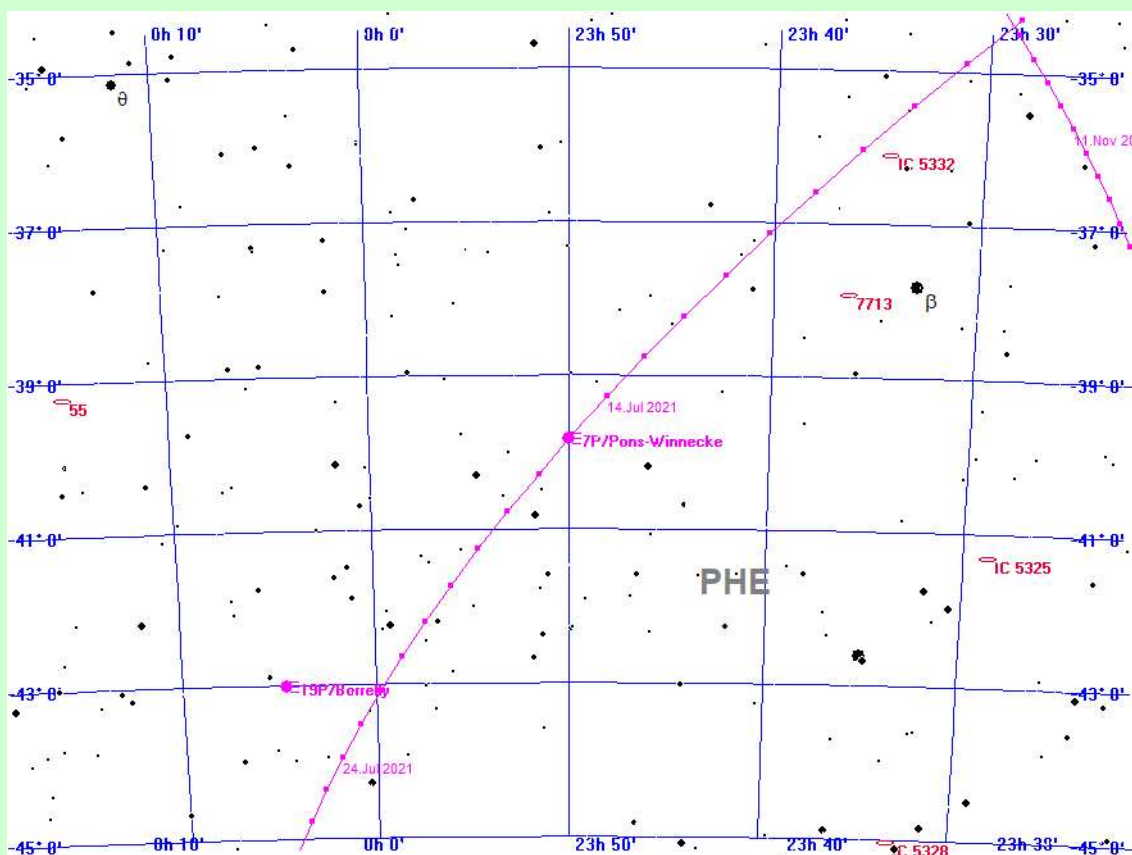


7P/Pons-Winnecke am 23.6.2021

Der Komet 7P/Pons-Winnecke im Jahre 2021 berechnet für den Standort Mitteldeutschland

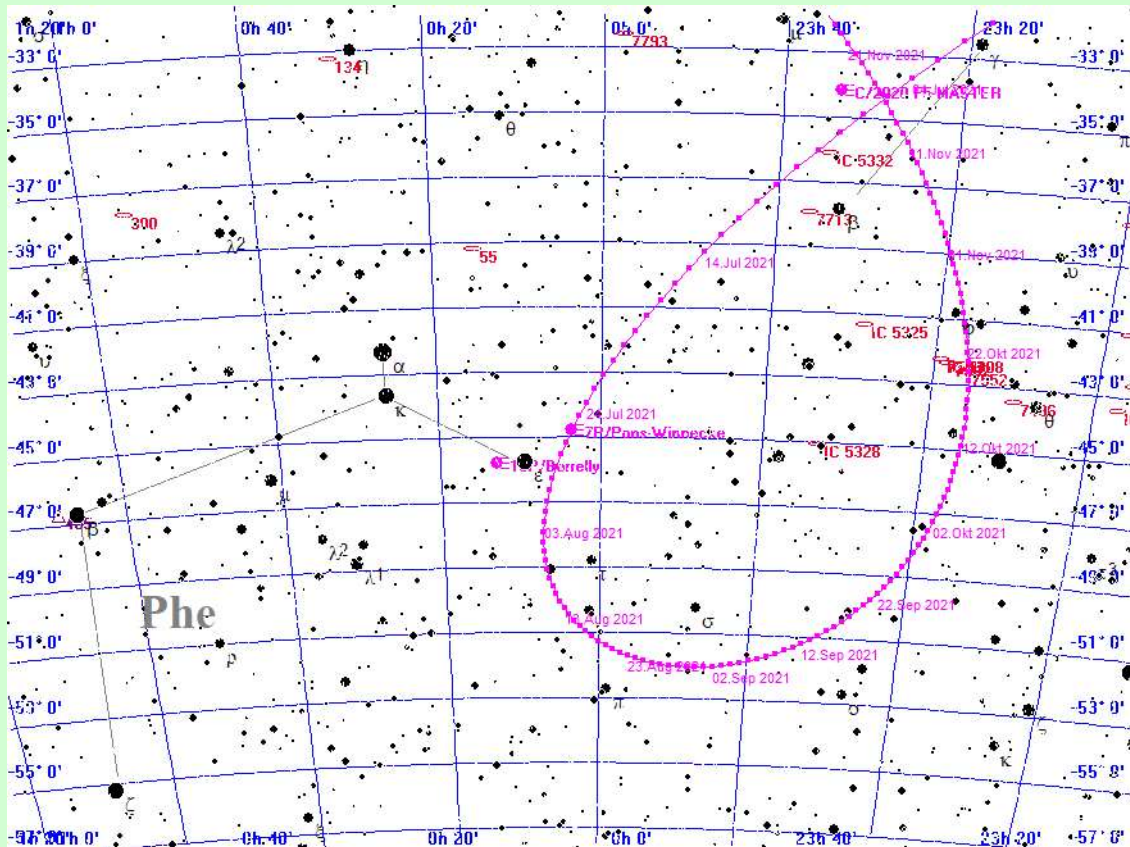


7P/Pons-Winnecke am 4.7.2021

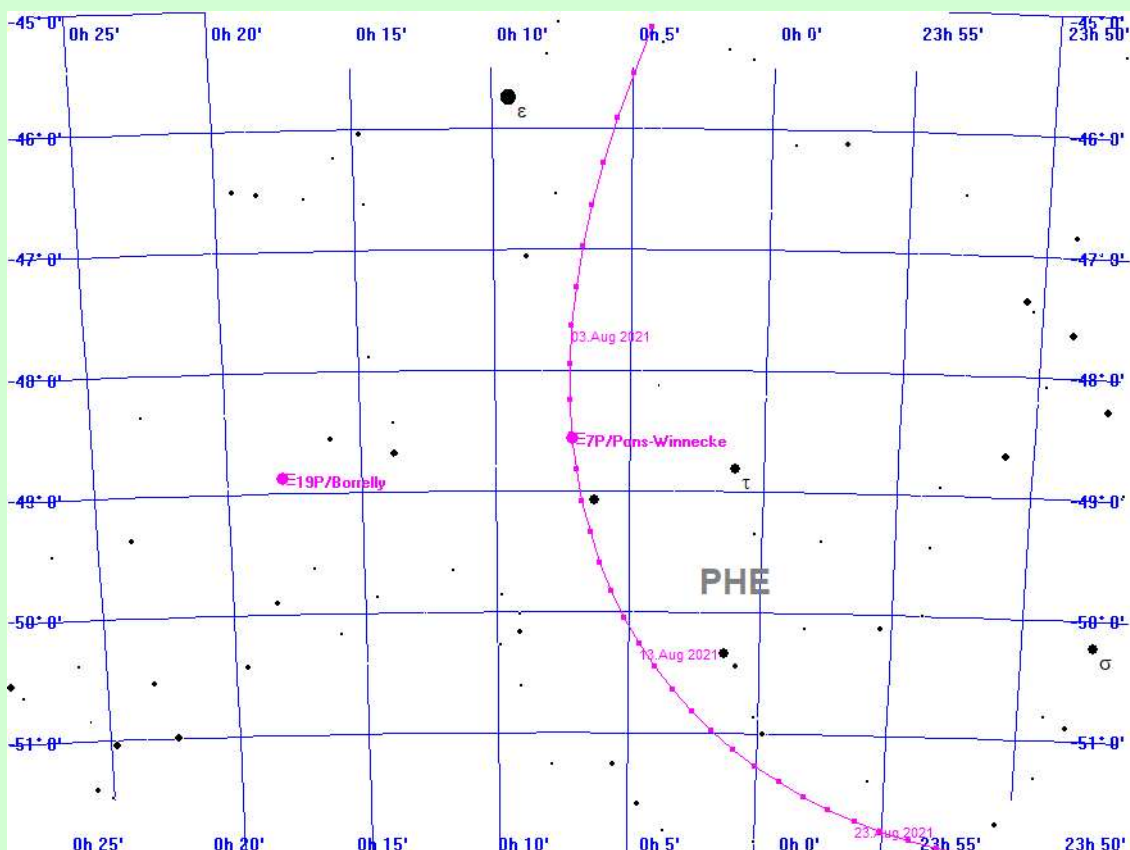


7P/Pons-Winnecke am 15.7.2021

Der Komet 7P/Pons-Winnecke im Jahre 2021 berechnet für den Standort Mitteldeutschland

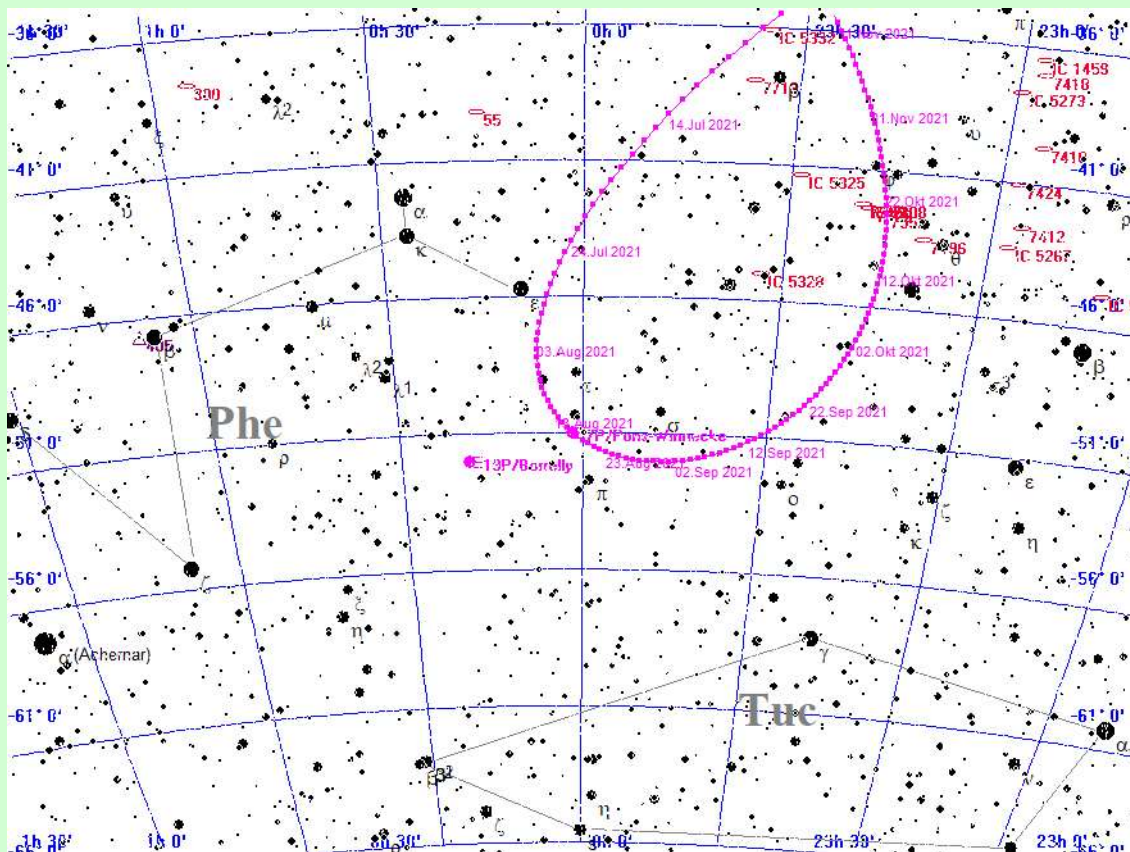


7P/Pons-Winnecke am 26.7.2021

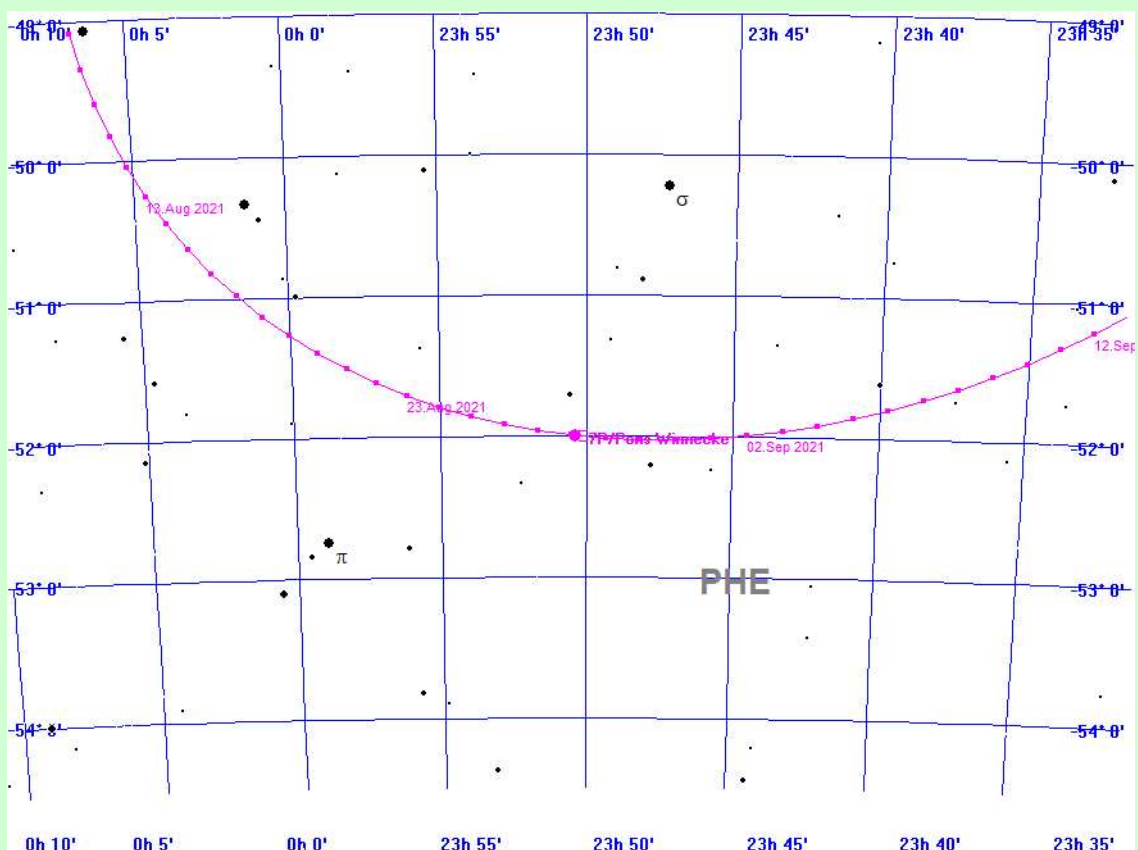


7P/Pons-Winnecke am 6.8.2021

Der Komet 7P/Pons-Winnecke im Jahre 2021 berechnet für den Standort Mitteldeutschland

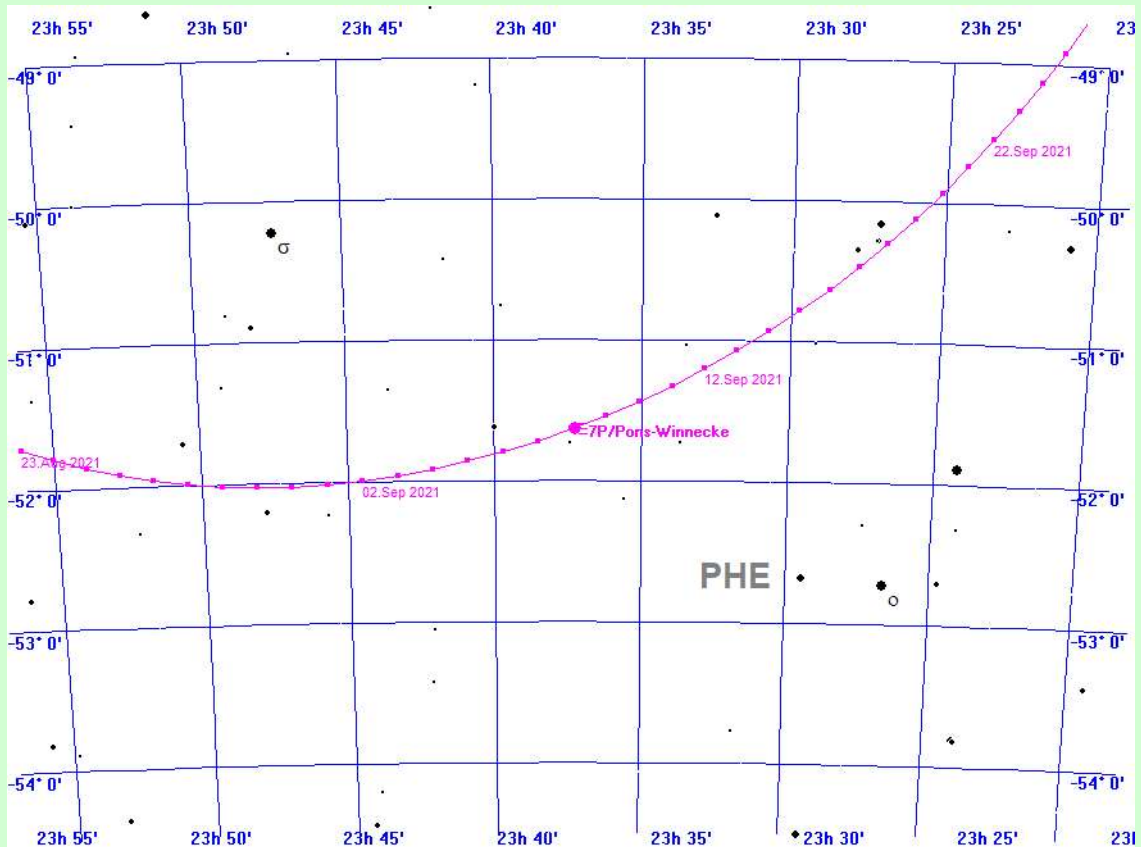


7P/Pons-Winnecke am 17.8.2021

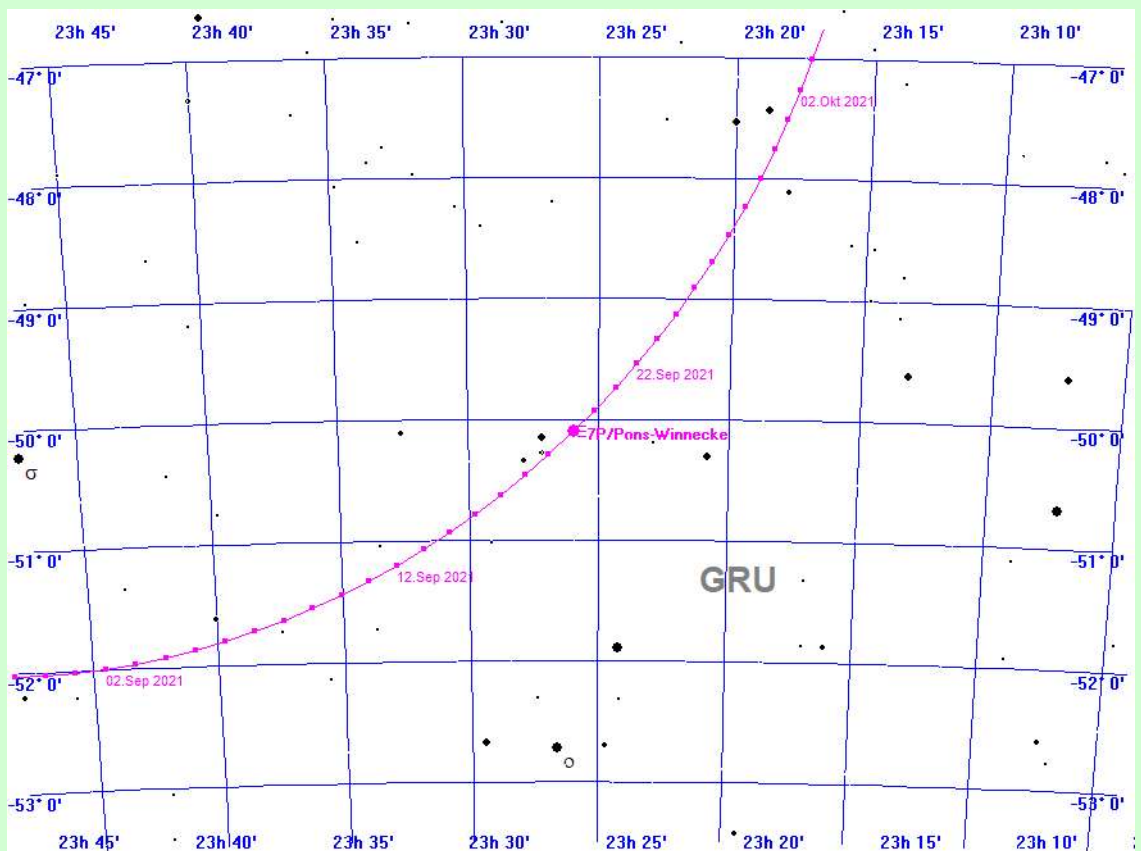


7P/Pons-Winnecke am 28.8.2021

Der Komet 7P/Pons-Winnecke im Jahre 2021 berechnet für den Standort Mitteldeutschland

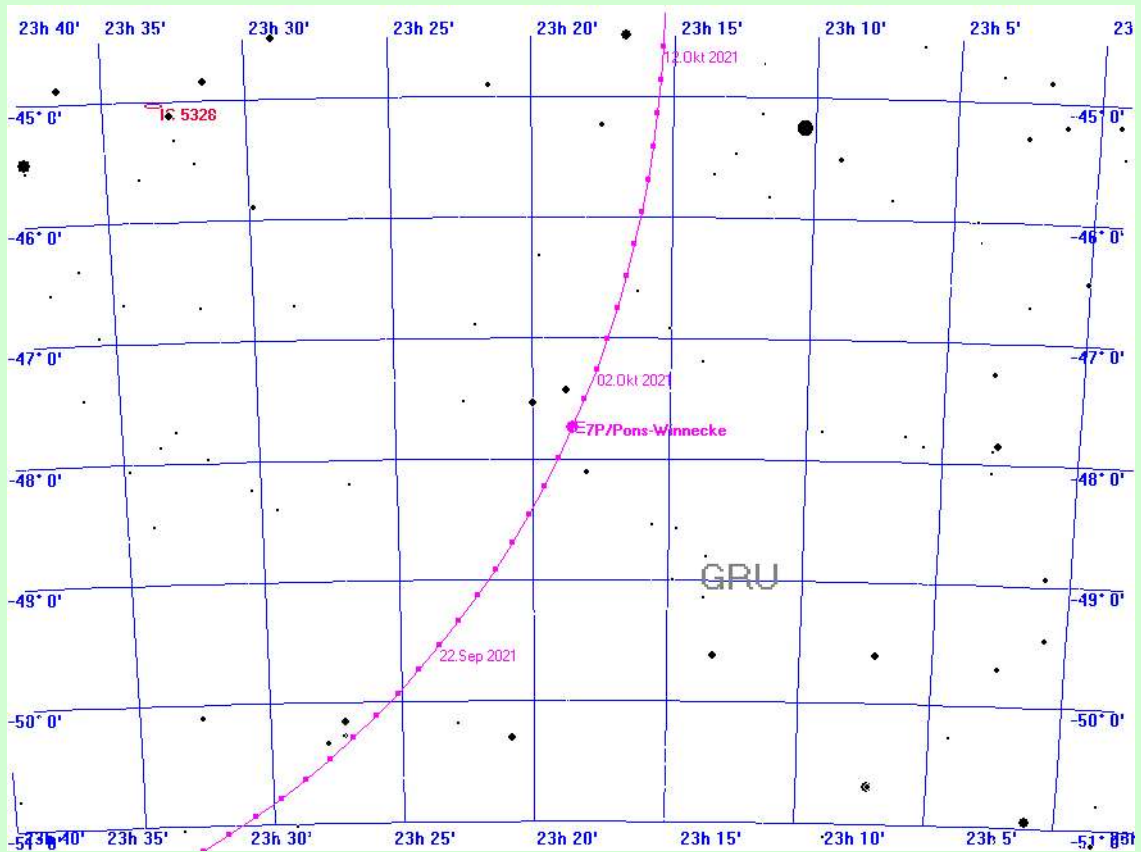


7P/Pons-Winnecke am 8.9.2021

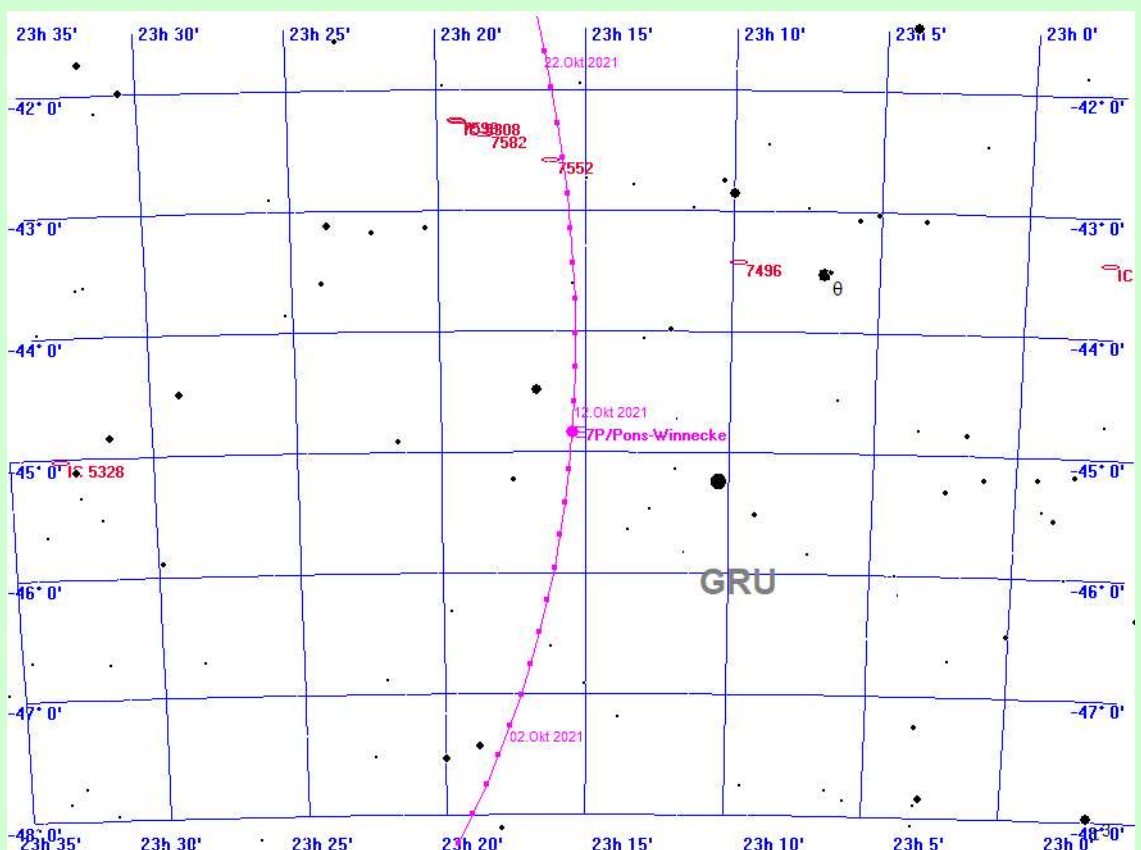


7P/Pons-Winnecke am 19.9.2021

Der Komet 7P/Pons-Winnecke im Jahre 2021 berechnet für den Standort Mitteldeutschland

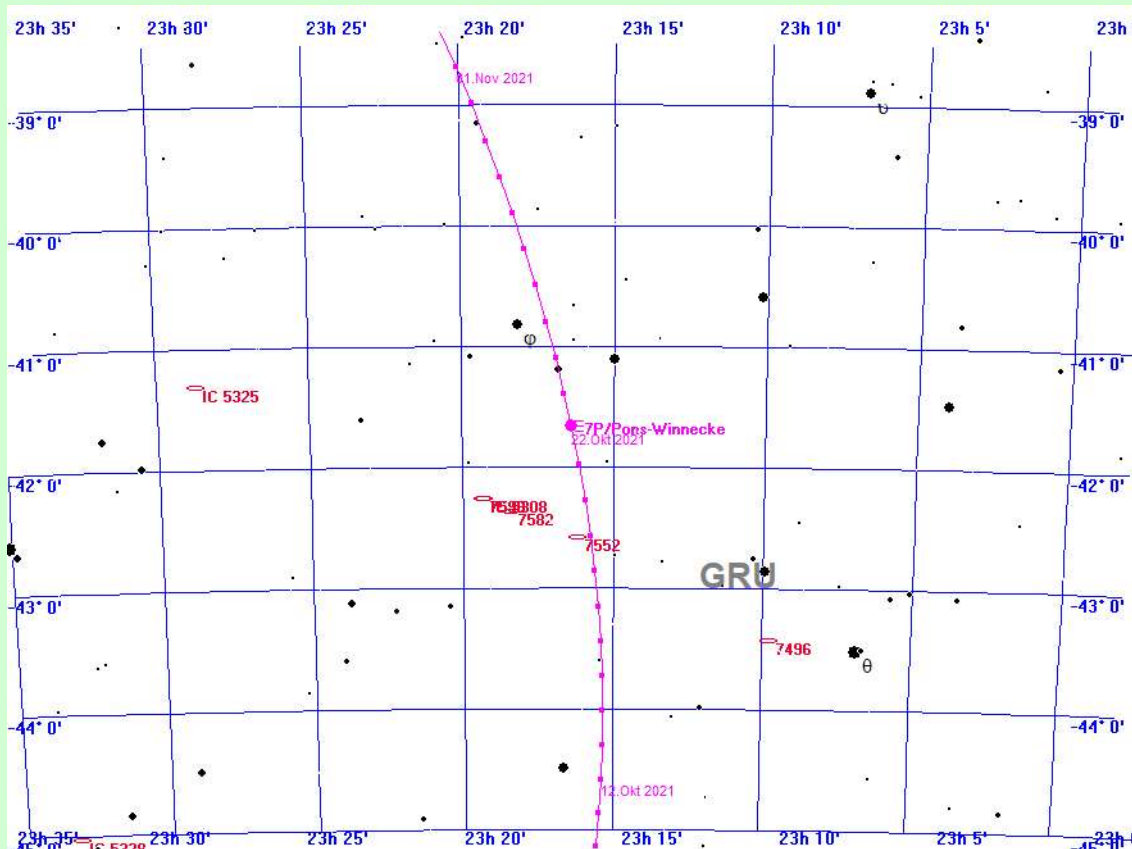


7P/Pons-Winnecke am 30.9.2021

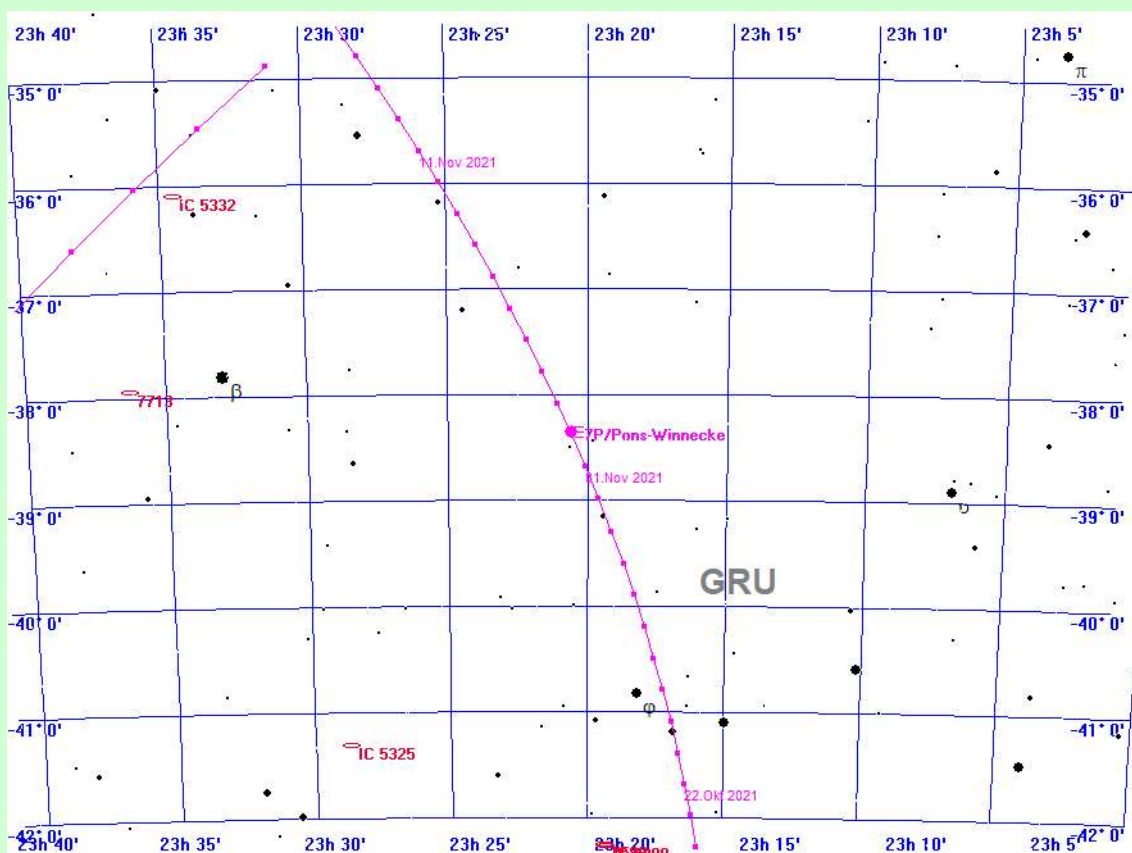


7P/Pons-Winnecke am 11.10.2021

Der Komet 7P/Pons-Winnecke im Jahre 2021 berechnet für den Standort Mitteldeutschland

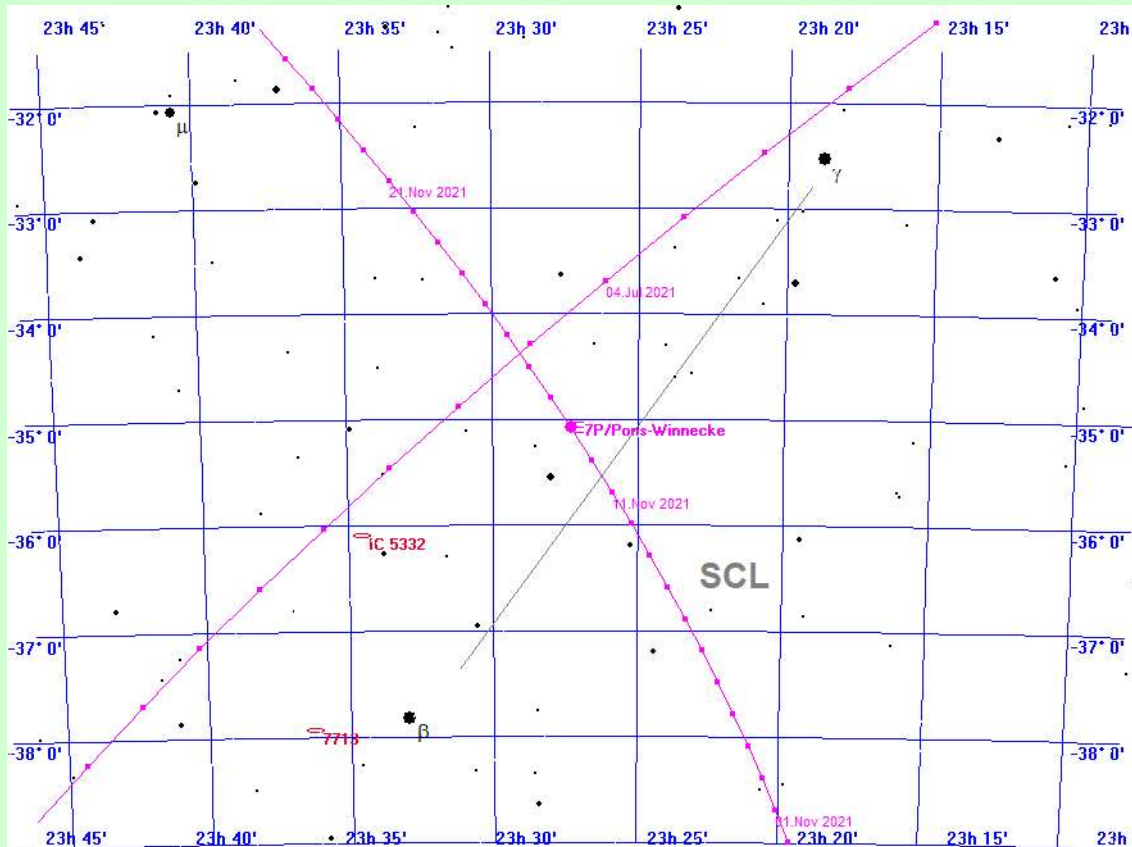


7P/Pons-Winnecke am 22.10.2021

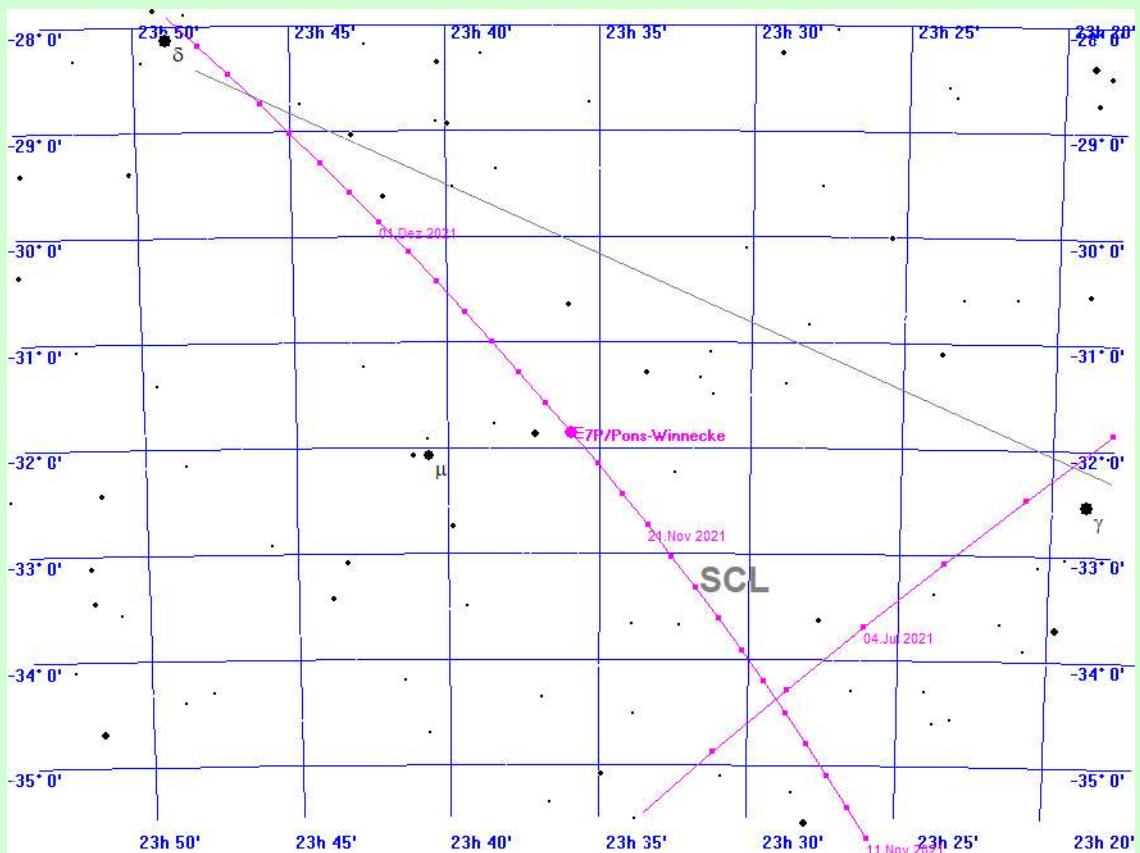


7P/Pons-Winnecke am 2.11.2021

Der Komet 7P/Pons-Winnecke im Jahre 2021 berechnet für den Standort Mitteldeutschland

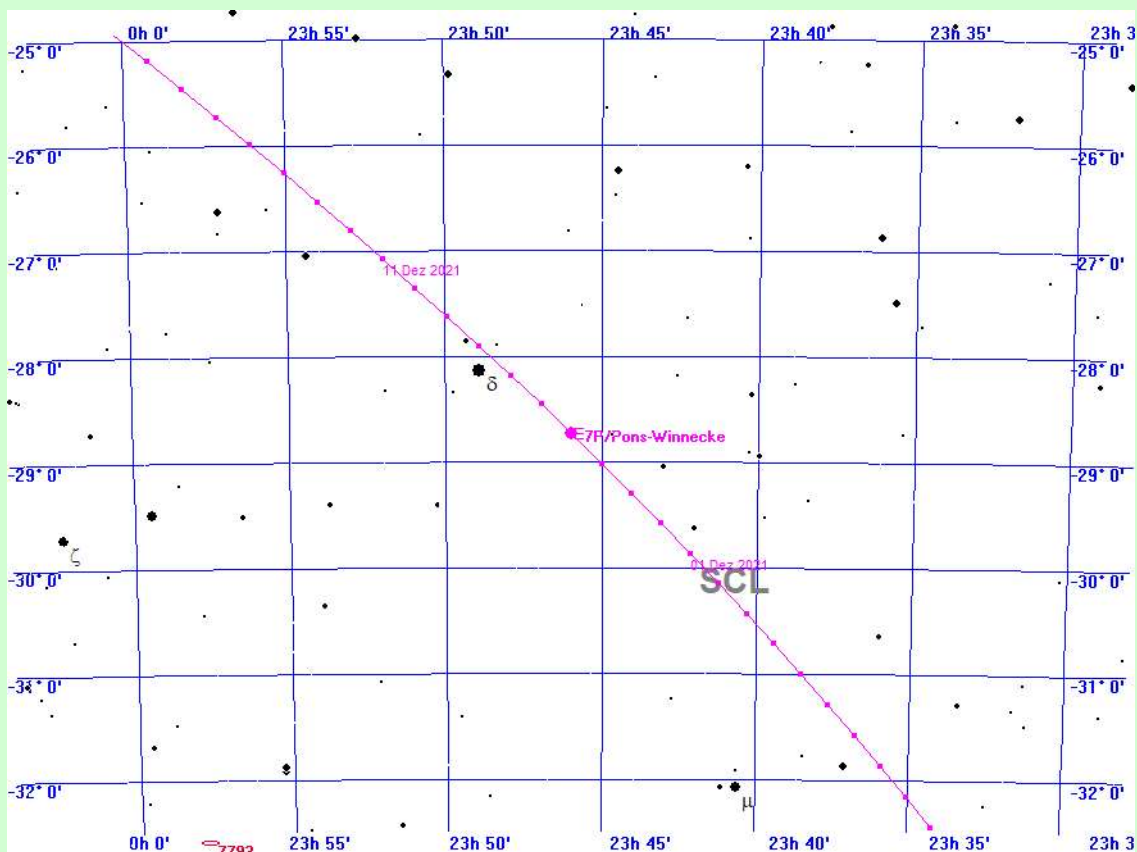


7P/Pons-Winnecke am 13.11.2021

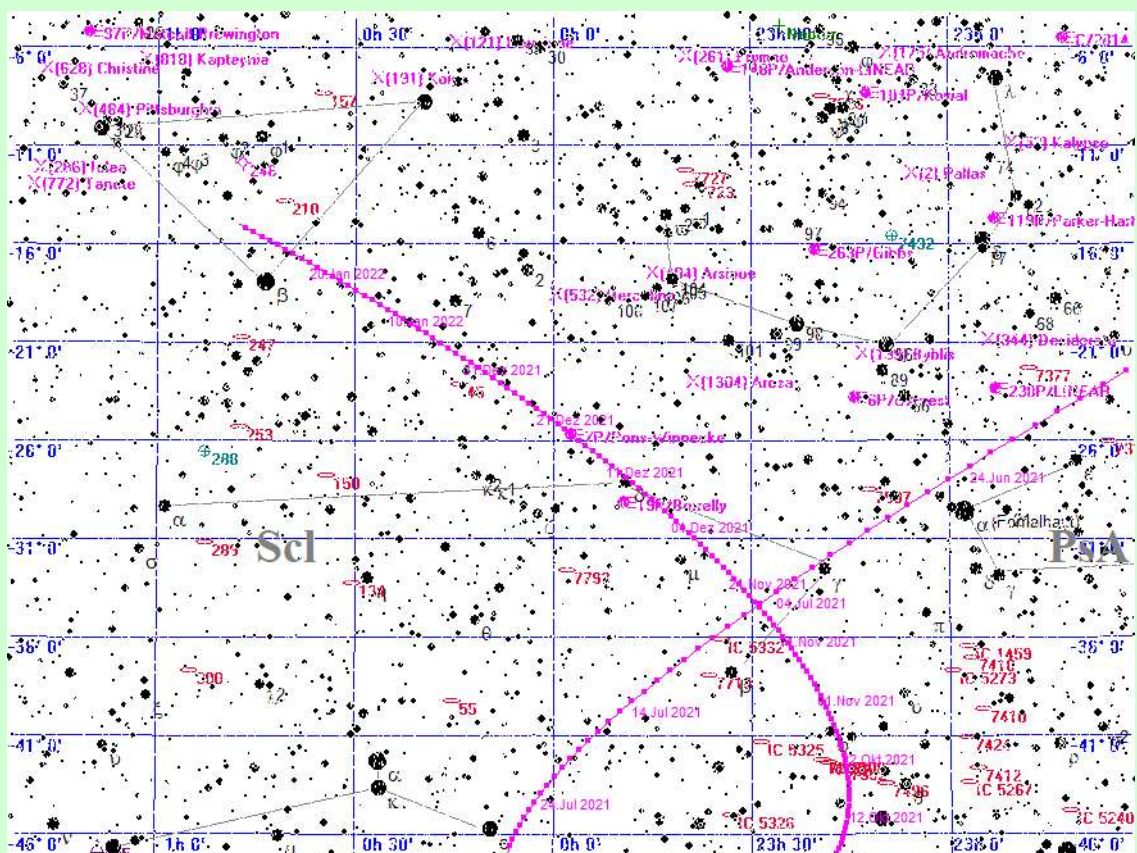


7P/Pons-Winnecke am 24.11.2021

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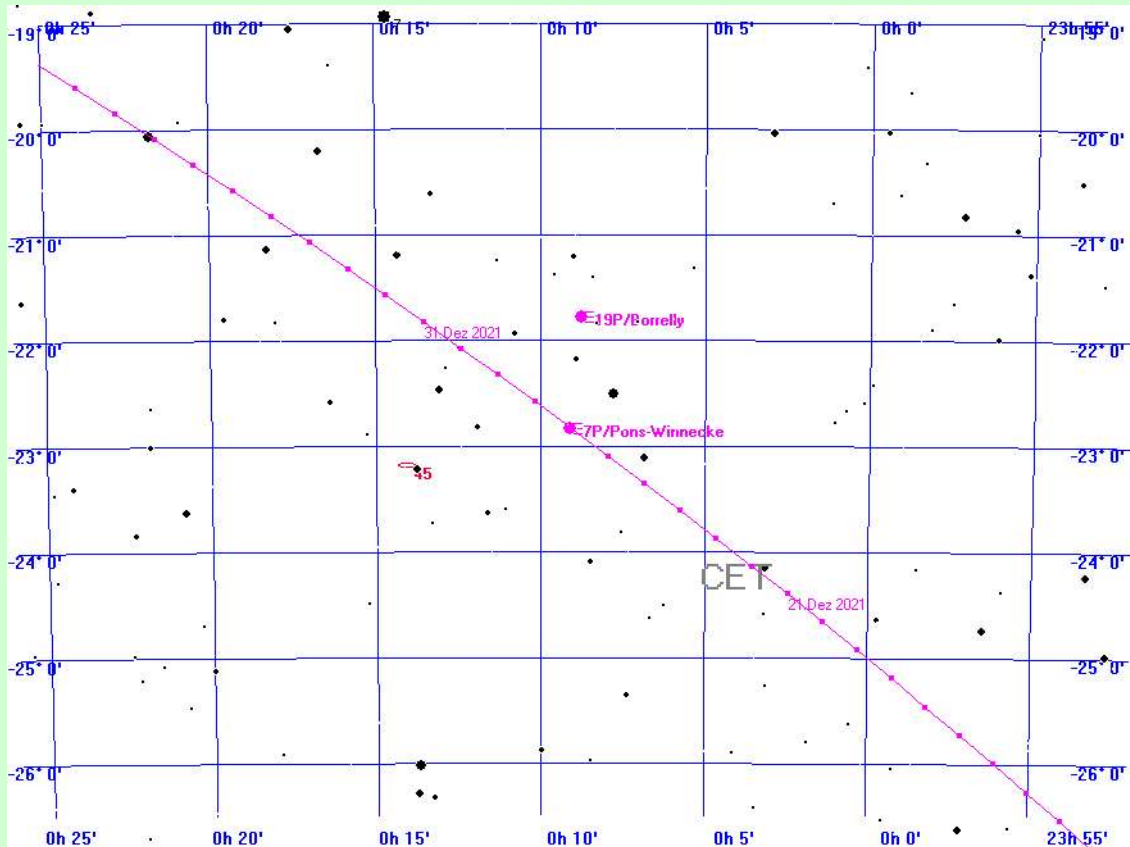


7P/Pons-Winnecke am 5.12.2021

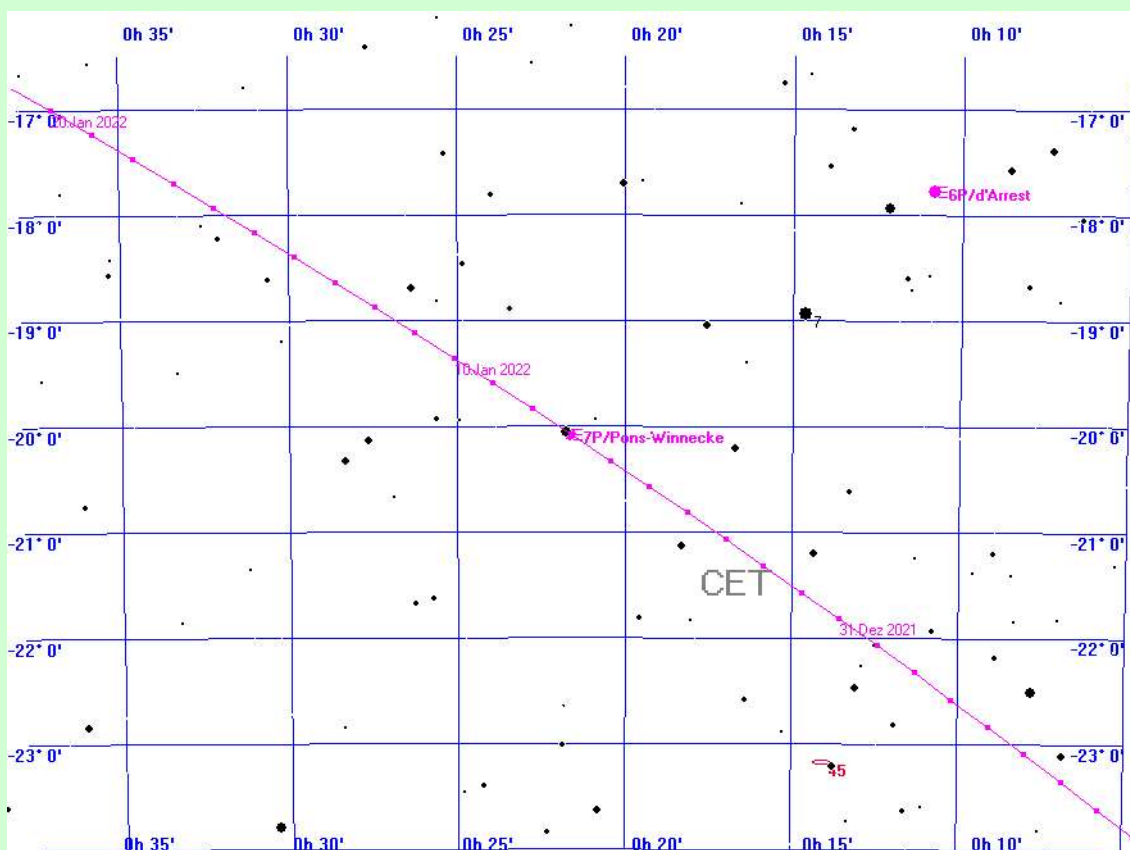


7P/Pons-Winnecke am 16.12.2021

Der Komet 7P/Pons-Winnecke im Jahre 2021 berechnet für den Standort Mitteldeutschland



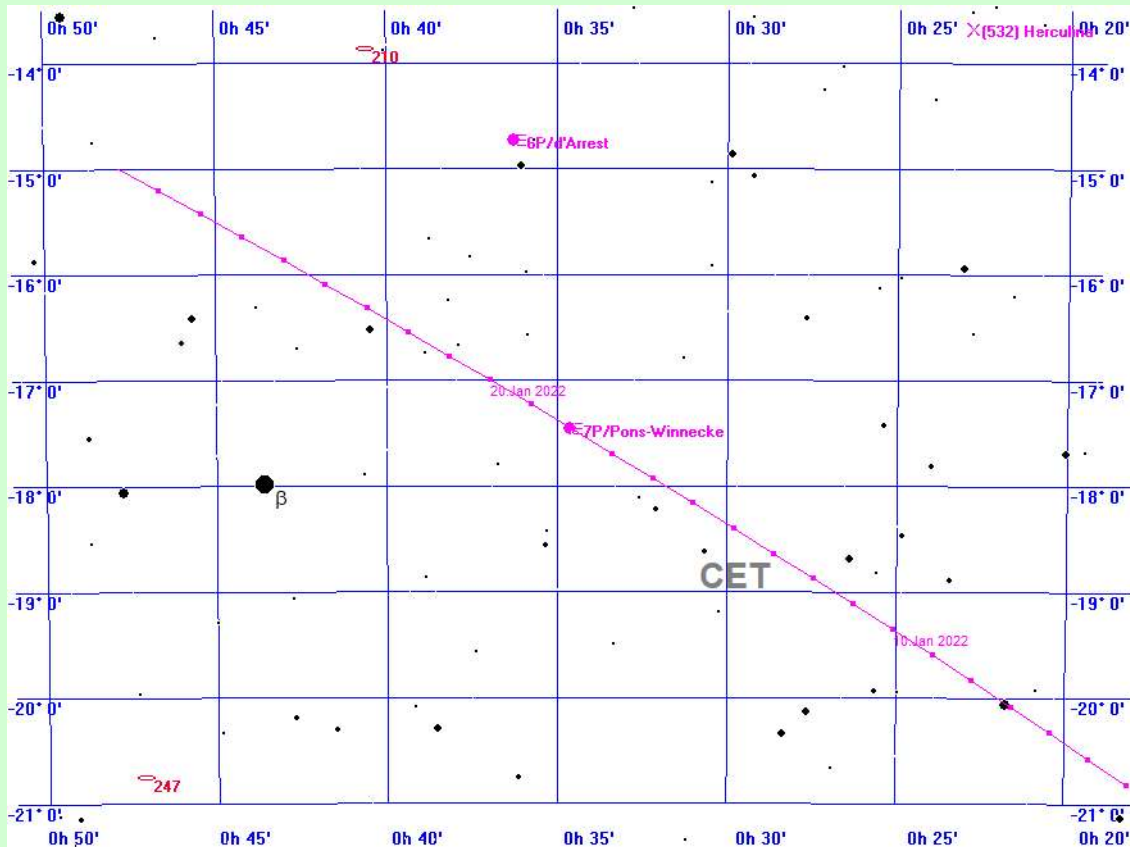
7P/Pons-Winnecke am 27.12.2021



7P/Pons-Winnecke am 7.1.2022

Der Komet 7P/Pons-Winnecke im Jahre 2021

berechnet für den Standort Mitteldeutschland



7P/Pons-Winnecke am 18.1.2022

Der Komet 7P/Pons-Winnecke im Jahre 2021

berechnet für den Standort Mitteldeutschland

Ephemeride des Kometen 7P/Pons-Winnecke

	Datum	Rektaszens.	Deklination	r	Delta	Hell.	Aufg.	Untg.	T _{Opt.}	Höhe	Azi	Stb
Do.	08.Okt 2020	11h21'23.8"	+20°19'18.1"	2.691 aE	3.451 aE	16.0	03:44	19:21	06:21	+23°	O	LEO
Fr.	09.Okt 2020	11h23' 5.4"	+20°12'12.6"	2.684 aE	3.437 aE	16.0	03:43	19:18	06:23	+24°	O	LEO
Sa.	10.Okt 2020	11h24'47.1"	+20° 5' 6.9"	2.677 aE	3.423 aE	15.9	03:41	19:15	06:24	+24°	O	LEO
So.	11.Okt 2020	11h26'29.1"	+19°58' 0.9"	2.670 aE	3.408 aE	15.9	03:40	19:12	06:26	+25°	O	LEO
Mo.	12.Okt 2020	11h28'11.3"	+19°50'54.9"	2.663 aE	3.393 aE	15.9	03:38	19:09	06:27	+25°	O	LEO
Di.	13.Okt 2020	11h29'53.7"	+19°43'48.7"	2.656 aE	3.379 aE	15.9	03:37	19:06	06:29	+26°	O	LEO
Mi.	14.Okt 2020	11h31'36.4"	+19°36'42.6"	2.648 aE	3.364 aE	15.9	03:35	19:03	06:30	+26°	O	LEO
Do.	15.Okt 2020	11h33'19.3"	+19°29'36.5"	2.641 aE	3.349 aE	15.8	03:34	19:00	06:32	+27°	O	LEO
Fr.	16.Okt 2020	11h35' 2.4"	+19°22'30.4"	2.634 aE	3.334 aE	15.8	03:32	18:57	06:33	+27°	O	LEO
Sa.	17.Okt 2020	11h36'45.7"	+19°15'24.5"	2.627 aE	3.319 aE	15.8	03:31	18:54	06:35	+28°	O	LEO
So.	18.Okt 2020	11h38'29.2"	+19° 8'18.8"	2.620 aE	3.303 aE	15.8	03:29	18:51	06:36	+28°	O	LEO
Mo.	19.Okt 2020	11h40'13.0"	+19° 1'13.4"	2.612 aE	3.288 aE	15.8	03:28	18:48	06:38	+29°	O	LEO
Di.	20.Okt 2020	11h41'57.0"	+18°54' 8.3"	2.605 aE	3.273 aE	15.7	03:26	18:46	06:39	+29°	O	LEO
Mi.	21.Okt 2020	11h43'41.2"	+18°47' 3.5"	2.598 aE	3.257 aE	15.7	03:25	18:43	06:41	+30°	O	LEO
Do.	22.Okt 2020	11h45'25.7"	+18°39'59.1"	2.591 aE	3.242 aE	15.7	03:23	18:40	06:42	+30°	O	LEO
Fr.	23.Okt 2020	11h47'10.4"	+18°32'55.1"	2.583 aE	3.226 aE	15.7	03:22	18:37	06:44	+31°	O	LEO
Sa.	24.Okt 2020	11h48'55.3"	+18°25'51.7"	2.576 aE	3.210 aE	15.6	03:20	18:34	06:45	+31°	O	LEO
So.	25.Okt 2020	11h50'44.9"	+18°18'31.2"	2.569 aE	3.194 aE	15.6	02:19	17:31	05:47	+32°	O	LEO
Mo.	26.Okt 2020	11h52'30.3"	+18°11'28.9"	2.561 aE	3.178 aE	15.6	02:17	17:28	05:48	+32°	O	LEO
Di.	27.Okt 2020	11h54'15.9"	+18° 4'27.1"	2.554 aE	3.162 aE	15.6	02:16	17:25	05:50	+33°	O	LEO
Mi.	28.Okt 2020	11h56' 1.8"	+17°57'26.0"	2.547 aE	3.146 aE	15.5	02:14	17:23	05:51	+33°	O	LEO
Do.	29.Okt 2020	11h57'48.0"	+17°50'25.7"	2.539 aE	3.130 aE	15.5	02:13	17:20	05:53	+34°	O	LEO
Fr.	30.Okt 2020	11h59'34.3"	+17°43'26.1"	2.532 aE	3.114 aE	15.5	02:11	17:17	05:54	+34°	O	COM
Sa.	31.Okt 2020	12h 1'21.0"	+17°36'27.2"	2.525 aE	3.097 aE	15.5	02:10	17:14	05:56	+35°	O	COM
So.	01.Nov 2020	12h 3' 7.9"	+17°29'29.2"	2.517 aE	3.081 aE	15.5	02:08	17:11	05:57	+35°	O	COM
Mo.	02.Nov 2020	12h 4'55.0"	+17°22'32.2"	2.510 aE	3.065 aE	15.4	02:07	17:08	05:59	+36°	O	COM
Di.	03.Nov 2020	12h 6'42.5"	+17°15'36.0"	2.503 aE	3.048 aE	15.4	02:05	17:06	06:00	+36°	O	COM
Mi.	04.Nov 2020	12h 8'30.2"	+17° 8'40.9"	2.495 aE	3.032 aE	15.4	02:04	17:03	06:02	+37°	O	COM
Do.	05.Nov 2020	12h10'18.1"	+17° 1'46.8"	2.488 aE	3.015 aE	15.4	02:02	17:00	06:03	+37°	O	COM
Fr.	06.Nov 2020	12h12' 6.4"	+16°54'53.9"	2.480 aE	2.999 aE	15.3	02:01	16:57	06:05	+38°	O	COM
Sa.	07.Nov 2020	12h13'54.9"	+16°48' 2.1"	2.473 aE	2.982 aE	15.3	01:59	16:55	06:06	+38°	O	COM
So.	08.Nov 2020	12h15'43.6"	+16°41'11.5"	2.466 aE	2.965 aE	15.3	01:58	16:52	06:08	+38°	SO	COM
Mo.	09.Nov 2020	12h17'32.7"	+16°34'22.3"	2.458 aE	2.948 aE	15.3	01:56	16:49	06:09	+39°	SO	COM
Di.	10.Nov 2020	12h19'22.0"	+16°27'34.4"	2.451 aE	2.932 aE	15.2	01:55	16:46	06:11	+39°	SO	COM
Mi.	11.Nov 2020	12h21'11.7"	+16°20'48.0"	2.443 aE	2.915 aE	15.2	01:53	16:44	06:12	+40°	SO	COM
Do.	12.Nov 2020	12h23' 1.6"	+16°14' 3.1"	2.436 aE	2.898 aE	15.2	01:52	16:41	06:14	+40°	SO	COM
Fr.	13.Nov 2020	12h24'51.8"	+16° 7'19.9"	2.428 aE	2.881 aE	15.2	01:50	16:38	06:15	+41°	SO	COM
Sa.	14.Nov 2020	12h26'42.2"	+16° 0'38.2"	2.421 aE	2.864 aE	15.1	01:49	16:35	06:16	+41°	SO	COM
So.	15.Nov 2020	12h28'33.0"	+15°53'58.4"	2.414 aE	2.847 aE	15.1	01:47	16:33	06:18	+41°	SO	COM
Mo.	16.Nov 2020	12h30'24.0"	+15°47'20.3"	2.406 aE	2.829 aE	15.1	01:46	16:30	06:19	+42°	SO	COM
Di.	17.Nov 2020	12h32'15.4"	+15°40'44.1"	2.399 aE	2.812 aE	15.0	01:44	16:27	06:21	+42°	SO	COM
Mi.	18.Nov 2020	12h34' 7.0"	+15°34' 9.8"	2.391 aE	2.795 aE	15.0	01:43	16:25	06:22	+43°	SO	COM
Do.	19.Nov 2020	12h35'58.9"	+15°27'37.6"	2.384 aE	2.778 aE	15.0	01:42	16:22	06:23	+43°	SO	COM
Fr.	20.Nov 2020	12h37'51.1"	+15°21' 7.4"	2.376 aE	2.761 aE	15.0	01:40	16:19	06:25	+43°	SO	COM
Sa.	21.Nov 2020	12h39'43.6"	+15°14'39.3"	2.369 aE	2.743 aE	14.9	01:39	16:17	06:26	+44°	SO	COM
So.	22.Nov 2020	12h41'36.4"	+15° 8'13.3"	2.361 aE	2.726 aE	14.9	01:37	16:14	06:27	+44°	SO	COM
Mo.	23.Nov 2020	12h43'29.5"	+15° 1'49.5"	2.354 aE	2.709 aE	14.9	01:36	16:11	06:29	+44°	SO	COM
Di.	24.Nov 2020	12h45'22.9"	+14°55'28.0"	2.346 aE	2.691 aE	14.9	01:34	16:09	06:30	+45°	SO	COM
Mi.	25.Nov 2020	12h47'16.7"	+14°49' 8.9"	2.338 aE	2.674 aE	14.8	01:33	16:06	06:31	+45°	SO	COM
Do.	26.Nov 2020	12h49'10.7"	+14°42'52.1"	2.331 aE	2.656 aE	14.8	01:31	16:04	06:32	+45°	SO	COM
Fr.	27.Nov 2020	12h51' 5.1"	+14°36'37.7"	2.323 aE	2.639 aE	14.8	01:30	16:01	06:34	+46°	SO	COM
Sa.	28.Nov 2020	12h52'59.8"	+14°30'25.8"	2.316 aE	2.621 aE	14.7	01:28	15:58	06:35	+46°	SO	COM
So.	29.Nov 2020	12h54'54.8"	+14°24'16.4"	2.308 aE	2.604 aE	14.7	01:27	15:56	06:36	+46°	SO	COM
Mo.	30.Nov 2020	12h56'50.2"	+14°18' 9.7"	2.301 aE	2.587 aE	14.7	01:25	15:53	06:37	+47°	SO	VIR
Di.	01.Dez 2020	12h58'45.9"	+14°12' 5.6"	2.293 aE	2.569 aE	14.7	01:24	15:51	06:38	+47°	SO	VIR
Mi.	02.Dez 2020	13h 0'41.9"	+14° 6' 4.2"	2.285 aE	2.552 aE	14.6	01:22	15:48	06:40	+47°	SO	VIR
Do.	03.Dez 2020	13h 2'38.3"	+14° 0' 5.6"	2.278 aE	2.534 aE	14.6	01:21	15:46	06:41	+47°	SO	VIR
Fr.	04.Dez 2020	13h 4'35.1"	+13°54' 9.9"	2.270 aE	2.516 aE	14.6	01:19	15:43	06:42	+48°	SO	VIR
Sa.	05.Dez 2020	13h 6'32.2"	+13°48'17.1"	2.263 aE	2.499 aE	14.5	01:18	15:41	06:43	+48°	SO	VIR
So.	06.Dez 2020	13h 8'29.6"	+13°42'27.2"	2.255 aE	2.481 aE	14.5	01:16	15:38	06:44	+48°	SO	VIR
Mo.	07.Dez 2020	13h10'27.5"	+13°36'40.5"	2.247 aE	2.464 aE	14.5	01:15	15:36	06:45	+48°	SO	VIR
Di.	08.Dez 2020	13h12'25.6"	+13°30'56.9"	2.240 aE	2.446 aE	14.4	01:14	15:33	06:46	+48°	SO	VIR
Mi.	09.Dez 2020	13h14'24.2"	+13°25'16.6"	2.232 aE	2.429 aE	14.4	01:12	15:31	06:47	+49°	SO	VIR
Do.	10.Dez 2020	13h16'23.1"	+13°19'39.6"	2.224 aE	2.411 aE	14.4	01:11	15:28	06:48	+49°	SO	VIR
Fr.	11.Dez 2020	13h18'22.4"	+13°14' 6.0"	2.217 aE	2.394 aE	14.4	01:09	15:26	06:49	+49°	SO	VIR
Sa.	12.Dez 2020	13h20'22.0"	+13° 8'35.8"	2.209 aE	2.376 aE	14.3	01:08	15:23	06:49	+49°	SO	VIR
So.	13.Dez 2020	13h22'22.1"	+13° 3' 9.3"	2.202 aE	2.359 aE	14.3	01:06	15:21	06:50	+49°	SO	VIR
Mo.	14.Dez 2020	13h24'22.4"	+12°57'46.3"	2.194 aE	2.341 aE	14.3	01:05	15:19	06:51	+49°	SO	VIR
Di.	15.Dez 2020	13h26'23.2"	+12°52'27.1"	2.186 aE	2.324 aE	14.2	01:03	15:16	06:52	+50°	SO	VIR
Mi.	16.Dez 2020	13h28'24.3"	+12°47'11.6"	2.178 aE	2.306 aE	14.2	01:02	15:14	06:52	+50°	SO	VIR
Do.	17.Dez 2020	13h30'25.9"	+12°41'60.0"	2.171 aE	2.289 aE	14.2	01:00	15:12	06:53	+50°	SO	VIR
Fr.	18.Dez 2020	13h32'27.8"	+12°36'52.2"	2.163 aE	2.271 aE	14.1	00:59	15:09	06:54	+50°	SO	VIR
Sa.	19.Dez 2020	13h34'30.0"	+12°31'48.4"	2.155 aE	2.254 aE	14.1	00:57	15:07	06:54	+50°	SO	VIR
So.	20.Dez 2020	13h36'32.7"	+12°26'48.5"	2.148 aE	2.236 aE	14.1	00:56	15:05	06:55	+50°	SO	BOO
Mo.	21.Dez 2020	13h38'35.8"	+12°21'52.6"	2.140 aE	2.219 aE	14.0	00:55	15:02	06:55	+50°	SO	BOO
Di.	22.Dez 2020	13h40'39.2"	+12°17' 0.8"	2.132 aE	2.201 aE	14.0	00:53	15:00	06:56	+50°	SO	BOO
Mi.	23.Dez 2020	13h42'43.1"	+12°12'13.1"	2.125 aE	2.184 aE	14.0	00:52	14:58	06:56	+50°	S	BOO

Der Komet 7P/Pons-Winnecke im Jahre 2021

berechnet für den Standort Mitteldeutschland

Ephemeride des Kometen 7P/Pons-Winnecke

	Datum	Rektaszens.	Deklination	r	Delta	Hell.	Aufg.	Untg.	TOpt.	Höhe	Ri.	Stb
Do.	24.Dez 2020	13h44'47.4"	+12° 7'29.6"	2.117 aE	2.167 aE	13.9	00:50	14:55	06:57	+50°	S	BOO
Fr.	25.Dez 2020	13h46'52.1"	+12° 2'50.3"	2.109 aE	2.150 aE	13.9	00:49	14:53	06:57	+50°	S	BOO
Sa.	26.Dez 2020	13h48'57.2"	+11°58'15.2"	2.102 aE	2.132 aE	13.9	00:47	14:51	06:57	+50°	S	BOO
So.	27.Dez 2020	13h51' 2.7"	+11°53'44.4"	2.094 aE	2.115 aE	13.8	00:46	14:49	06:58	+51°	S	BOO
Mo.	28.Dez 2020	13h53' 8.7"	+11°49'18.0"	2.086 aE	2.098 aE	13.8	00:44	14:46	06:58	+51°	S	BOO
Di.	29.Dez 2020	13h55'15.1"	+11°44'55.9"	2.078 aE	2.081 aE	13.8	00:43	14:44	06:58	+51°	S	BOO
Mi.	30.Dez 2020	13h57'21.9"	+11°40'38.3"	2.071 aE	2.064 aE	13.7	00:41	14:42	06:58	+51°	S	BOO
Do.	31.Dez 2020	13h59'29.1"	+11°36'25.2"	2.063 aE	2.047 aE	13.7	00:40	14:40	06:58	+51°	S	BOO
Fr.	01.Jan 2021	14h 1'36.9"	+11°32'16.6"	2.055 aE	2.030 aE	13.7	00:39	14:38	06:58	+51°	S	BOO
Sa.	02.Jan 2021	14h 3'45.0"	+11°28'12.6"	2.048 aE	2.013 aE	13.6	00:37	14:36	06:58	+51°	S	BOO
So.	03.Jan 2021	14h 5'53.7"	+11°24'13.2"	2.040 aE	1.996 aE	13.6	00:36	14:33	06:58	+51°	S	BOO
Mo.	04.Jan 2021	14h 8' 2.7"	+11°20'18.5"	2.032 aE	1.979 aE	13.6	00:34	14:31	06:58	+51°	S	BOO
Di.	05.Jan 2021	14h10'12.3"	+11°16'28.6"	2.024 aE	1.962 aE	13.5	00:33	14:29	06:58	+51°	S	BOO
Mi.	06.Jan 2021	14h12'22.3"	+11°12'43.6"	2.017 aE	1.945 aE	13.5	00:31	14:27	06:58	+51°	S	BOO
Do.	07.Jan 2021	14h14'32.7"	+11° 9' 3.4"	2.009 aE	1.928 aE	13.5	00:30	14:25	06:58	+51°	S	BOO
Fr.	08.Jan 2021	14h16'43.7"	+11° 5'28.2"	2.001 aE	1.912 aE	13.4	00:28	14:23	06:58	+51°	S	BOO
Sa.	09.Jan 2021	14h18'55.1"	+11° 1'58.0"	1.993 aE	1.895 aE	13.4	00:27	14:21	06:57	+51°	S	BOO
So.	10.Jan 2021	14h21' 7.0"	+10°58'32.8"	1.986 aE	1.878 aE	13.3	00:25	14:19	06:57	+51°	S	BOO
Mo.	11.Jan 2021	14h23'19.3"	+10°55'12.7"	1.978 aE	1.862 aE	13.3	00:24	14:17	06:57	+51°	S	BOO
Di.	12.Jan 2021	14h25'32.1"	+10°51'57.8"	1.970 aE	1.845 aE	13.3	00:23	14:15	06:56	+51°	S	BOO
Mi.	13.Jan 2021	14h27'45.4"	+10°48'48.0"	1.963 aE	1.829 aE	13.2	00:21	14:13	06:56	+51°	S	BOO
Do.	14.Jan 2021	14h29'59.1"	+10°45'43.3"	1.955 aE	1.813 aE	13.2	00:20	14:11	06:55	+51°	S	BOO
Fr.	15.Jan 2021	14h32'13.3"	+10°42'43.8"	1.947 aE	1.796 aE	13.2	00:18	14:09	06:55	+51°	S	BOO
Sa.	16.Jan 2021	14h34'28.1"	+10°39'49.5"	1.939 aE	1.780 aE	13.1	00:17	14:07	06:54	+50°	S	BOO
So.	17.Jan 2021	14h36'43.2"	+10°37' 0.3"	1.932 aE	1.764 aE	13.1	00:15	14:05	06:54	+50°	S	BOO
Mo.	18.Jan 2021	14h38'58.9"	+10°34'16.2"	1.924 aE	1.748 aE	13.1	00:14	14:03	06:53	+50°	S	BOO
Di.	19.Jan 2021	14h41'15.1"	+10°31'37.3"	1.916 aE	1.732 aE	13.0	00:12	14:01	06:52	+50°	S	BOO
Mi.	20.Jan 2021	14h43'31.8"	+10°29' 3.5"	1.909 aE	1.716 aE	13.0	00:11	14:00	06:51	+50°	S	BOO
Do.	21.Jan 2021	14h45'48.9"	+10°26'34.8"	1.901 aE	1.700 aE	12.9	00:09	13:58	06:51	+50°	S	BOO
Fr.	22.Jan 2021	14h48' 6.6"	+10°24'11.1"	1.893 aE	1.684 aE	12.9	00:08	13:56	06:50	+50°	S	BOO
Sa.	23.Jan 2021	14h50'24.8"	+10°21'52.5"	1.886 aE	1.669 aE	12.9	00:07	13:54	06:49	+50°	S	BOO
So.	24.Jan 2021	14h52'43.5"	+10°19'38.9"	1.878 aE	1.653 aE	12.8	00:05	13:52	06:48	+50°	S	BOO
Mo.	25.Jan 2021	14h55' 2.8"	+10°17'30.3"	1.870 aE	1.637 aE	12.8	00:04	13:50	06:47	+50°	S	BOO
Di.	26.Jan 2021	14h57'22.5"	+10°15'26.7"	1.863 aE	1.622 aE	12.8	00:02	13:49	06:46	+50°	S	BOO
Mi.	27.Jan 2021	14h59'42.8"	+10°13'27.9"	1.855 aE	1.607 aE	12.7	23:59	13:47	06:45	+50°	S	BOO
Do.	28.Jan 2021	15h 2' 3.7"	+10°11'34.1"	1.847 aE	1.591 aE	12.7	23:58	13:45	06:44	+50°	S	BOO
Fr.	29.Jan 2021	15h 4'25.1"	+10° 9'45.1"	1.840 aE	1.576 aE	12.6	23:57	13:43	06:43	+50°	S	BOO
Sa.	30.Jan 2021	15h 6'47.0"	+10° 8' 0.9"	1.832 aE	1.561 aE	12.6	23:55	13:42	06:42	+50°	S	BOO
So.	31.Jan 2021	15h 9' 9.5"	+10° 6'21.4"	1.824 aE	1.546 aE	12.6	23:54	13:40	06:40	+50°	S	BOO
Mo.	01.Feb 2021	15h11'32.6"	+10° 4'46.8"	1.817 aE	1.531 aE	12.5	23:52	13:38	06:39	+50°	S	SER
Di.	02.Feb 2021	15h13'56.2"	+10° 3'16.8"	1.809 aE	1.516 aE	12.5	23:51	13:37	06:38	+50°	S	SER
Mi.	03.Feb 2021	15h16'20.4"	+10° 1'51.5"	1.802 aE	1.501 aE	12.4	23:49	13:35	06:37	+50°	S	SER
Do.	04.Feb 2021	15h18'45.1"	+10° 0'30.9"	1.794 aE	1.486 aE	12.4	23:48	13:33	06:35	+50°	S	SER
Fr.	05.Feb 2021	15h21'10.4"	+ 9°59'14.8"	1.787 aE	1.472 aE	12.4	23:47	13:32	06:34	+50°	S	SER
Sa.	06.Feb 2021	15h23'36.3"	+ 9°58' 3.3"	1.779 aE	1.457 aE	12.3	23:45	13:30	06:33	+50°	S	SER
So.	07.Feb 2021	15h26' 2.7"	+ 9°56'56.2"	1.771 aE	1.443 aE	12.3	23:44	13:29	06:31	+50°	S	SER
Mo.	08.Feb 2021	15h28'29.7"	+ 9°55'53.5"	1.764 aE	1.428 aE	12.2	23:42	13:27	06:30	+50°	S	SER
Di.	09.Feb 2021	15h30'57.3"	+ 9°54'55.0"	1.756 aE	1.414 aE	12.2	23:41	13:25	06:28	+50°	S	SER
Mi.	10.Feb 2021	15h33'25.4"	+ 9°54' 0.7"	1.749 aE	1.400 aE	12.2	23:40	13:24	06:27	+50°	S	SER
Do.	11.Feb 2021	15h35'54.2"	+ 9°53'10.3"	1.741 aE	1.386 aE	12.1	23:38	13:22	06:25	+50°	S	SER
Fr.	12.Feb 2021	15h38'23.4"	+ 9°52'23.8"	1.734 aE	1.372 aE	12.1	23:37	13:21	06:24	+50°	S	SER
Sa.	13.Feb 2021	15h40'53.3"	+ 9°51'41.0"	1.727 aE	1.358 aE	12.0	23:35	13:19	06:22	+50°	S	SER
So.	14.Feb 2021	15h43'23.7"	+ 9°51' 1.7"	1.719 aE	1.344 aE	12.0	23:34	13:18	06:20	+50°	S	SER
Mo.	15.Feb 2021	15h45'54.7"	+ 9°50'25.8"	1.712 aE	1.330 aE	12.0	23:33	13:16	06:19	+50°	S	SER
Di.	16.Feb 2021	15h48'26.3"	+ 9°49'52.9"	1.704 aE	1.316 aE	11.9	23:31	13:15	06:17	+50°	S	SER
Mi.	17.Feb 2021	15h50'58.5"	+ 9°49'23.1"	1.697 aE	1.303 aE	11.9	23:30	13:14	06:15	+50°	S	SER
Do.	18.Feb 2021	15h53'31.3"	+ 9°48'55.9"	1.690 aE	1.289 aE	11.8	23:29	13:12	06:14	+50°	S	SER
Fr.	19.Feb 2021	15h56' 4.8"	+ 9°48'31.3"	1.682 aE	1.276 aE	11.8	23:27	13:11	06:12	+50°	S	SER
Sa.	20.Feb 2021	15h58'38.8"	+ 9°48' 9.0"	1.675 aE	1.263 aE	11.7	23:26	13:09	06:10	+50°	S	SER
So.	21.Feb 2021	16h 1'13.4"	+ 9°47'48.8"	1.668 aE	1.250 aE	11.7	23:25	13:08	06:08	+50°	S	SER
Mo.	22.Feb 2021	16h 3'48.7"	+ 9°47'30.4"	1.660 aE	1.237 aE	11.7	23:23	13:07	06:06	+50°	S	SER
Di.	23.Feb 2021	16h 6'24.6"	+ 9°47'13.6"	1.653 aE	1.224 aE	11.6	23:22	13:05	06:04	+50°	S	SER
Mi.	24.Feb 2021	16h 9' 1.2"	+ 9°46'58.1"	1.646 aE	1.211 aE	11.6	23:21	13:04	06:03	+50°	S	SER
Do.	25.Feb 2021	16h11'38.4"	+ 9°46'43.7"	1.639 aE	1.198 aE	11.5	23:19	13:03	06:01	+50°	S	HER
Fr.	26.Feb 2021	16h14'16.2"	+ 9°46'30.2"	1.632 aE	1.185 aE	11.5	23:18	13:01	05:59	+50°	S	HER
Sa.	27.Feb 2021	16h16'54.7"	+ 9°46'17.2"	1.624 aE	1.173 aE	11.5	23:17	13:00	05:57	+50°	S	HER
So.	28.Feb 2021	16h19'33.9"	+ 9°46' 4.6"	1.617 aE	1.160 aE	11.4	23:16	12:59	05:55	+50°	S	HER
Mo.	01.Mrz 2021	16h22'13.8"	+ 9°45'51.9"	1.610 aE	1.148 aE	11.4	23:14	12:57	05:53	+50°	S	HER
Di.	02.Mrz 2021	16h24'54.4"	+ 9°45'39.1"	1.603 aE	1.136 aE	11.3	23:13	12:56	05:51	+50°	S	HER
Mi.	03.Mrz 2021	16h27'35.6"	+ 9°45'25.8"	1.596 aE	1.123 aE	11.3	23:12	12:55	05:49	+50°	S	HER
Do.	04.Mrz 2021	16h30'17.6"	+ 9°45'11.7"	1.589 aE	1.111 aE	11.2	23:11	12:54	05:47	+50°	S	HER
Fr.	05.Mrz 2021	16h33' 0.2"	+ 9°44'56.5"	1.582 aE	1.099 aE	11.2	23:10	12:52	05:45	+50°	S	HER
Sa.	06.Mrz 2021	16h35'43.6"	+ 9°44'39.9"	1.575 aE	1.088 aE	11.2	23:08	12:51	05:43	+50°	S	HER
So.	07.Mrz 2021	16h38'27.6"	+ 9°44'21.5"	1.568 aE	1.076 aE	11.1	23:07	12:50	05:41	+50°	S	HER
Mo.	08.Mrz 2021	16h41'12.3"	+ 9°44' 1.0"	1.561 aE	1.064 aE	11.1	23:06	12:49	05:38	+50°	S	HER
Di.	09.Mrz 2021	16h43'57.8"	+ 9°43'38.0"	1.555 aE	1.053 aE	11.0	23:05	12:47	05:36	+50°	S	HER
Mi.	10.Mrz 2021	16h46'43.9"	+ 9°43'12.0"	1.548 aE	1.041 aE	11.0	23:04	12:46	05:34	+49°	S	HER

Der Komet 7P/Pons-Winnecke im Jahre 2021

berechnet für den Standort Mitteldeutschland

Ephemeride des Kometen 7P/Pons-Winnecke

	Datum	Rektaszens.	Deklination	r	Delta	Hell.	Aufg.	Untg.	TOpt.	Höhe	Ri.	Stb
Do.	11.Mrz	2021 16h49'30.8"	+ 9°42'42.6"	1.541 aE	1.030 aE	10.9	23:03	12:45	05:32	+49°	S	HER
Fr.	12.Mrz	2021 16h52'18.3"	+ 9°42' 9.3"	1.534 aE	1.018 aE	10.9	23:02	12:44	05:30	+49°	S	OPH
Sa.	13.Mrz	2021 16h55' 6.6"	+ 9°41'31.7"	1.528 aE	1.007 aE	10.9	23:01	12:43	05:28	+49°	S	OPH
So.	14.Mrz	2021 16h57'55.6"	+ 9°40'49.3"	1.521 aE	0.996 aE	10.8	22:59	12:41	05:25	+49°	S	OPH
Mo.	15.Mrz	2021 17h 0'45.4"	+ 9°40' 1.5"	1.514 aE	0.985 aE	10.8	22:58	12:40	05:23	+49°	S	OPH
Di.	16.Mrz	2021 17h 3'35.9"	+ 9°39' 7.8"	1.508 aE	0.974 aE	10.7	22:57	12:39	05:21	+49°	S	OPH
Mi.	17.Mrz	2021 17h 6'27.2"	+ 9°38' 7.7"	1.501 aE	0.964 aE	10.7	22:56	12:38	05:19	+49°	S	OPH
Do.	18.Mrz	2021 17h 9'19.2"	+ 9°37' 0.6"	1.495 aE	0.953 aE	10.6	22:55	12:37	05:16	+49°	S	OPH
Fr.	19.Mrz	2021 17h12'12.0"	+ 9°35'46.0"	1.489 aE	0.942 aE	10.6	22:55	12:36	05:14	+49°	S	OPH
Sa.	20.Mrz	2021 17h15' 5.6"	+ 9°34'23.3"	1.482 aE	0.932 aE	10.6	22:54	12:34	05:12	+49°	S	OPH
So.	21.Mrz	2021 17h18' 0.0"	+ 9°32'51.8"	1.476 aE	0.921 aE	10.5	22:53	12:33	05:10	+49°	S	OPH
Mo.	22.Mrz	2021 17h20'55.3"	+ 9°31'11.1"	1.470 aE	0.911 aE	10.5	22:52	12:32	05:07	+49°	S	OPH
Di.	23.Mrz	2021 17h23'51.4"	+ 9°29'20.4"	1.463 aE	0.901 aE	10.4	22:51	12:31	05:05	+49°	S	OPH
Mi.	24.Mrz	2021 17h26'48.3"	+ 9°27'19.2"	1.457 aE	0.891 aE	10.4	22:50	12:30	05:03	+49°	S	OPH
Do.	25.Mrz	2021 17h29'46.1"	+ 9°25' 6.8"	1.451 aE	0.881 aE	10.3	22:50	12:29	05:00	+49°	S	OPH
Fr.	26.Mrz	2021 17h32'44.8"	+ 9°22'42.7"	1.445 aE	0.871 aE	10.3	22:49	12:27	04:58	+49°	S	OPH
Sa.	27.Mrz	2021 17h35'44.3"	+ 9°20' 6.2"	1.439 aE	0.861 aE	10.3	22:48	12:26	04:56	+48°	S	OPH
So.	28.Mrz	2021 17h38'37.3"	+ 9°17'23.7"	1.433 aE	0.852 aE	10.2	23:47	13:25	05:53	+48°	S	OPH
Mo.	29.Mrz	2021 17h41'38.7"	+ 9°14'21.0"	1.427 aE	0.842 aE	10.2	23:47	13:24	05:51	+48°	S	OPH
Di.	30.Mrz	2021 17h44'41.0"	+ 9°11' 4.1"	1.422 aE	0.833 aE	10.1	23:46	13:23	05:49	+48°	S	OPH
Mi.	31.Mrz	2021 17h47'44.3"	+ 9° 7'32.3"	1.416 aE	0.823 aE	10.1	23:46	13:22	05:46	+48°	S	OPH
Do.	01.Apr	2021 17h50'48.5"	+ 9° 3'44.9"	1.410 aE	0.814 aE	10.0	23:45	13:20	05:44	+48°	S	OPH
Fr.	02.Apr	2021 17h53'53.7"	+ 8°59'41.3"	1.405 aE	0.805 aE	10.0	23:45	13:19	05:42	+48°	S	OPH
Sa.	03.Apr	2021 17h56'59.9"	+ 8°55'20.6"	1.399 aE	0.796 aE	10.0	23:44	13:18	05:39	+48°	S	OPH
So.	04.Apr	2021 18h 0' 7.1"	+ 8°50'42.3"	1.394 aE	0.787 aE	9.9	23:44	13:17	05:37	+47°	S	OPH
Mo.	05.Apr	2021 18h 3'15.3"	+ 8°45'45.5"	1.388 aE	0.778 aE	9.9	23:43	13:16	05:34	+47°	S	OPH
Di.	06.Apr	2021 18h 6'24.5"	+ 8°40'29.3"	1.383 aE	0.769 aE	9.8	23:43	13:14	05:32	+47°	S	OPH
Mi.	07.Apr	2021 18h 9'34.7"	+ 8°34'53.1"	1.377 aE	0.760 aE	9.8	23:43	13:13	05:30	+47°	S	OPH
Do.	08.Apr	2021 18h12'45.9"	+ 8°28'55.9"	1.372 aE	0.752 aE	9.8	23:43	13:12	05:27	+47°	S	OPH
Fr.	09.Apr	2021 18h15'58.1"	+ 8°22'36.9"	1.367 aE	0.743 aE	9.7	23:43	13:11	05:25	+46°	S	OPH
Sa.	10.Apr	2021 18h19'11.4"	+ 8°15'55.2"	1.362 aE	0.735 aE	9.7	23:42	13:09	05:22	+46°	SO	OPH
So.	11.Apr	2021 18h22'25.7"	+ 8° 8'49.9"	1.357 aE	0.726 aE	9.6	23:42	13:08	05:20	+46°	SO	OPH
Mo.	12.Apr	2021 18h25'41.2"	+ 8° 1'20.1"	1.352 aE	0.718 aE	9.6	23:42	13:07	05:18	+46°	SO	OPH
Di.	13.Apr	2021 18h28'57.6"	+ 7°53'24.9"	1.347 aE	0.710 aE	9.6	23:42	13:05	05:15	+46°	SO	OPH
Mi.	14.Apr	2021 18h32'15.2"	+ 7°45' 3.3"	1.343 aE	0.702 aE	9.5	23:42	13:04	05:13	+45°	SO	OPH
Do.	15.Apr	2021 18h35'33.9"	+ 7°36'14.5"	1.338 aE	0.694 aE	9.5	23:43	13:03	05:10	+45°	SO	OPH
Fr.	16.Apr	2021 18h38'53.8"	+ 7°26'57.4"	1.333 aE	0.686 aE	9.4	23:43	13:01	05:08	+45°	SO	OPH
Sa.	17.Apr	2021 18h42'14.7"	+ 7°17'11.2"	1.329 aE	0.678 aE	9.4	23:43	13:00	05:06	+44°	SO	OPH
So.	18.Apr	2021 18h45'36.9"	+ 7° 6'54.9"	1.324 aE	0.671 aE	9.4	23:43	12:58	05:03	+44°	SO	OPH
Mo.	19.Apr	2021 18h49' 0.2"	+ 6°56' 7.6"	1.320 aE	0.663 aE	9.3	23:44	12:57	05:01	+44°	SO	AQL
Di.	20.Apr	2021 18h52'24.7"	+ 6°44'48.4"	1.316 aE	0.656 aE	9.3	23:44	12:55	04:58	+43°	SO	AQL
Mi.	21.Apr	2021 18h55'50.4"	+ 6°32'56.4"	1.312 aE	0.648 aE	9.2	23:45	12:54	04:56	+43°	SO	AQL
Do.	22.Apr	2021 18h59'17.3"	+ 6°20'30.6"	1.308 aE	0.641 aE	9.2	23:45	12:52	04:54	+43°	SO	AQL
Fr.	23.Apr	2021 19h 2'45.5"	+ 6° 7'30.3"	1.304 aE	0.634 aE	9.2	23:46	12:51	04:51	+42°	SO	AQL
Sa.	24.Apr	2021 19h 6'15.0"	+ 5°53'54.5"	1.300 aE	0.627 aE	9.1	23:47	12:49	04:49	+42°	SO	AQL
So.	25.Apr	2021 19h 9'45.7"	+ 5°39'42.5"	1.296 aE	0.620 aE	9.1	23:48	12:48	04:46	+42°	SO	AQL
Mo.	26.Apr	2021 19h13'17.6"	+ 5°24'53.5"	1.293 aE	0.613 aE	9.1	23:48	12:46	04:44	+41°	SO	AQL
Di.	27.Apr	2021 19h16'50.9"	+ 5° 9'26.7"	1.289 aE	0.607 aE	9.0	23:49	12:44	04:42	+41°	SO	AQL
Mi.	28.Apr	2021 19h20'25.4"	+ 4°53'21.3"	1.286 aE	0.600 aE	9.0	23:50	12:43	04:39	+40°	SO	AQL
Do.	29.Apr	2021 19h24' 1.3"	+ 4°36'36.6"	1.282 aE	0.593 aE	8.9	23:51	12:41	04:37	+40°	SO	AQL
Fr.	30.Apr	2021 19h27'38.4"	+ 4°19'11.9"	1.279 aE	0.587 aE	8.9	23:53	12:39	04:35	+40°	SO	AQL
Sa.	01.Mai	2021 19h31'16.7"	+ 4° 1' 6.4"	1.276 aE	0.581 aE	8.9	23:54	12:38	04:32	+39°	SO	AQL
So.	02.Mai	2021 19h34'56.3"	+ 3°42'19.5"	1.273 aE	0.575 aE	8.8	23:55	12:36	04:30	+39°	SO	AQL
Mo.	03.Mai	2021 19h38'37.2"	+ 3°22'50.4"	1.270 aE	0.569 aE	8.8	23:56	12:34	04:28	+38°	SO	AQL
Di.	04.Mai	2021 19h42'19.3"	+ 3° 2'38.5"	1.267 aE	0.563 aE	8.8	23:58	12:32	04:25	+38°	SO	AQL
Mi.	05.Mai	2021 19h46' 2.5"	+ 2°41'43.2"	1.264 aE	0.557 aE	8.7	23:59	12:30	04:23	+37°	SO	AQL
Do.	06.Mai	2021 19h49'47.0"	+ 2°20' 3.9"	1.262 aE	0.551 aE	8.7	--:--	12:28	04:21	+37°	SO	AQL
Fr.	07.Mai	2021 19h53'32.6"	+ 1°57'40.0"	1.259 aE	0.546 aE	8.7	00:01	12:26	04:19	+36°	SO	AQL
Sa.	08.Mai	2021 19h57'19.3"	+ 1°34'30.9"	1.257 aE	0.540 aE	8.7	00:03	12:24	04:17	+36°	SO	AQL
So.	09.Mai	2021 20h 1' 7.2"	+ 1°10'36.3"	1.255 aE	0.535 aE	8.6	00:04	12:22	04:14	+35°	SO	AQL
Mo.	10.Mai	2021 20h 4'56.1"	+ 0°45'55.8"	1.252 aE	0.530 aE	8.6	00:06	12:20	04:12	+34°	SO	AQL
Di.	11.Mai	2021 20h 8'46.1"	+ 0°20'29.1"	1.250 aE	0.525 aE	8.6	00:08	12:18	04:10	+34°	SO	AQL
Mi.	12.Mai	2021 20h12'37.0"	- 0° 5'44.0"	1.249 aE	0.520 aE	8.5	00:10	12:16	04:08	+33°	SO	AQL
Do.	13.Mai	2021 20h16'29.0"	- 0°32'43.7"	1.247 aE	0.515 aE	8.5	00:12	12:13	04:06	+33°	SO	AQL
Fr.	14.Mai	2021 20h20'21.9"	- 1° 0'30.0"	1.245 aE	0.510 aE	8.5	00:14	12:11	04:04	+32°	SO	AQL
Sa.	15.Mai	2021 20h24'15.7"	- 1°29' 2.7"	1.244 aE	0.506 aE	8.5	00:17	12:09	04:02	+31°	SO	AQL
So.	16.Mai	2021 20h28'10.4"	- 1°58'21.8"	1.242 aE	0.502 aE	8.4	00:19	12:06	04:00	+31°	SO	AQL
Mo.	17.Mai	2021 20h32' 5.8"	- 2°28'26.9"	1.241 aE	0.497 aE	8.4	00:21	12:04	03:58	+30°	SO	AQL
Di.	18.Mai	2021 20h36' 2.0"	- 2°59'17.6"	1.240 aE	0.493 aE	8.4	00:24	12:01	03:56	+29°	SO	AQL
Mi.	19.Mai	2021 20h39'59.0"	- 3°30'53.4"	1.239 aE	0.489 aE	8.4	00:26	11:59	03:54	+29°	SO	AQR
Do.	20.Mai	2021 20h43'56.6"	- 4° 3'13.6"	1.238 aE	0.486 aE	8.4	00:29	11:56	03:52	+28°	SO	AQR
Fr.	21.Mai	2021 20h47'54.8"	- 4°36'17.4"	1.237 aE	0.482 aE	8.3	00:32	11:54	03:50	+27°	SO	AQR
Sa.	22.Mai	2021 20h51'53.5"	- 5°10' 3.9"	1.236 aE	0.478 aE	8.3	00:34	11:51	03:48	+27°	SO	AQR
So.	23.Mai	2021 20h55'52.7"	- 5°44'31.9"	1.236 aE	0.475 aE	8.3	00:37	11:48	03:46	+26°	SO	AQR
Mo.	24.Mai	2021 20h59'52.3"	- 6°19'40.4"	1.235 aE	0.472 aE	8.3	00:40	11:45	03:44	+25°	SO	AQR
Di.	25.Mai	2021 21h 3'52.2"	- 6°55'28.0"	1.235 aE	0.469 aE	8.3	00:43	11:43	03:43	+24°	SO	AQR
Mi.	26.Mai	2021 21h 7'52.3"	- 7°31'53.4"	1.235 aE	0.466 aE	8.3	00:46	11:40	03:41	+24°	SO	AQR

Der Komet 7P/Pons-Winnecke im Jahre 2021

berechnet für den Standort Mitteldeutschland

Ephemeride des Kometen 7P/Pons-Winnecke

	Datum	Rektaszens.	Deklination	r	Delta	Hell.	Aufg.	Untg.	TOpt.	Höhe	Ri.	Stb
Do.	27.Mai 2021	21h11'52.5"	- 8° 8'55.0"	1.234 aE	0.463 aE	8.2	00:49	11:37	03:39	+23°	SO	AQR
Fr.	28.Mai 2021	21h15'52.8"	- 8°46'31.3"	1.234 aE	0.461 aE	8.2	00:52	11:34	03:38	+22°	SO	AQR
Sa.	29.Mai 2021	21h19'53.1"	- 9°24'40.6"	1.235 aE	0.459 aE	8.2	00:56	11:31	03:36	+21°	SO	AQR
So.	30.Mai 2021	21h23'53.1"	-10° 3'21.2"	1.235 aE	0.456 aE	8.2	00:59	11:27	03:35	+21°	SO	AQR
Mo.	31.Mai 2021	21h27'31.4"	-10°42'31.4"	1.235 aE	0.454 aE	8.2	01:02	11:24	03:33	+20°	SO	CAP
Di.	01.Jun 2021	21h31'52.2"	-11°22' 9.2"	1.236 aE	0.452 aE	8.2	01:06	11:21	03:32	+19°	SO	CAP
Mi.	02.Jun 2021	21h35'51.1"	-12° 2'12.6"	1.237 aE	0.451 aE	8.2	01:09	11:17	03:31	+18°	SO	CAP
Do.	03.Jun 2021	21h39'49.2"	-12°42'39.8"	1.237 aE	0.449 aE	8.2	01:13	11:14	03:30	+18°	SO	CAP
Fr.	04.Jun 2021	21h43'46.6"	-13°23'28.6"	1.238 aE	0.448 aE	8.2	01:16	11:10	03:28	+17°	SO	CAP
Sa.	05.Jun 2021	21h47'43.1"	-14° 4'36.9"	1.239 aE	0.446 aE	8.2	01:20	11:07	03:27	+16°	SO	CAP
So.	06.Jun 2021	21h51'38.5"	-14°46' 2.6"	1.240 aE	0.445 aE	8.2	01:23	11:03	03:26	+15°	SO	CAP
Mo.	07.Jun 2021	21h55'32.8"	-15°27'43.3"	1.242 aE	0.444 aE	8.2	01:27	10:59	03:25	+15°	SO	CAP
Di.	08.Jun 2021	21h59'25.7"	-16° 9'37.0"	1.243 aE	0.444 aE	8.2	01:31	10:55	03:24	+14°	SO	AQR
Mi.	09.Jun 2021	22h 3'17.3"	-16°51'41.2"	1.245 aE	0.443 aE	8.2	01:35	10:51	03:23	+13°	SO	AQR
Do.	10.Jun 2021	22h 7' 7.3"	-17°33'53.8"	1.246 aE	0.443 aE	8.2	01:38	10:47	03:23	+13°	SO	AQR
Fr.	11.Jun 2021	22h10'55.6"	-18°16'12.4"	1.248 aE	0.442 aE	8.2	01:42	10:43	03:22	+12°	SO	AQR
Sa.	12.Jun 2021	22h14'42.1"	-18°58'34.8"	1.250 aE	0.442 aE	8.2	01:46	10:39	03:21	+11°	SO	AQR
So.	13.Jun 2021	22h18'26.7"	-19°40'58.7"	1.252 aE	0.442 aE	8.2	01:50	10:35	03:21	+11°	SO	AQR
Mo.	14.Jun 2021	22h22' 9.2"	-20°23'21.8"	1.254 aE	0.442 aE	8.2	01:54	10:30	03:20	+10°	SO	AQR
Di.	15.Jun 2021	22h25'49.5"	-21° 5'42.0"	1.256 aE	0.443 aE	8.2	01:58	10:26	03:20	+ 9°	SO	AQR
Mi.	16.Jun 2021	22h29'27.5"	-21°47'57.1"	1.258 aE	0.443 aE	8.2	02:02	10:21	03:20	+ 9°	SO	AQR
Do.	17.Jun 2021	22h33' 3.1"	-22°30' 5.0"	1.261 aE	0.444 aE	8.2	02:06	10:16	03:20	+ 8°	SO	AQR
Fr.	18.Jun 2021	22h36'36.2"	-23°12' 3.6"	1.263 aE	0.445 aE	8.3	02:10	10:11	03:20	+ 7°	SO	AQR
Sa.	19.Jun 2021	22h40' 6.6"	-23°53'50.9"	1.266 aE	0.446 aE	8.3	02:14	10:06	03:20	+ 7°	SO	AQR
So.	20.Jun 2021	22h43'34.2"	-24°35'25.2"	1.269 aE	0.447 aE	8.3	02:18	10:01	03:20	+ 6°	SO	AQR
Mo.	21.Jun 2021	22h46'59.0"	-25°16'44.5"	1.272 aE	0.448 aE	8.3	02:23	09:56	03:20	+ 6°	SO	PSA
Di.	22.Jun 2021	22h50'20.8"	-25°57'47.4"	1.275 aE	0.449 aE	8.3	02:27	09:51	03:20	+ 5°	SO	PSA
Mi.	23.Jun 2021	22h53'39.4"	-26°38'32.2"	1.278 aE	0.451 aE	8.3	02:31	09:45	03:20	+ 5°	SO	PSA
Do.	24.Jun 2021	22h56'54.9"	-27°18'57.5"	1.281 aE	0.452 aE	8.4	02:35	09:39	03:21	+ 4°	SO	PSA
Fr.	25.Jun 2021	23h 0' 7.0"	-27°59' 2.1"	1.284 aE	0.454 aE	8.4	02:40	09:33	03:21	+ 4°	SO	PSA
Sa.	26.Jun 2021	23h 3'15.6"	-28°38'44.9"	1.288 aE	0.456 aE	8.4	02:44	09:27	03:22	+ 3°	SO	PSA
Sa.	06.Nov 2021	23h22'44.3"	-37°11' 7.6"	2.184 aE	1.651 aE	13.5	18:44	22:35	20:39	+ 3°	S	GRU
So.	07.Nov 2021	23h23'19.9"	-36°53' 8.5"	2.192 aE	1.668 aE	13.5	18:36	22:36	20:35	+ 3°	S	GRU
Mo.	08.Nov 2021	23h23'56.6"	-36°35'10.3"	2.200 aE	1.685 aE	13.6	18:28	22:37	20:32	+ 4°	S	GRU
Di.	09.Nov 2021	23h24'34.5"	-36°17'13.3"	2.207 aE	1.701 aE	13.6	18:21	22:37	20:29	+ 4°	S	SCL
Mi.	10.Nov 2021	23h25'13.4"	-35°59'17.6"	2.215 aE	1.718 aE	13.6	18:14	22:38	20:25	+ 4°	S	SCL
Do.	11.Nov 2021	23h25'53.3"	-35°41'23.4"	2.223 aE	1.735 aE	13.7	18:07	22:39	20:22	+ 5°	S	SCL
Fr.	12.Nov 2021	23h26'34.2"	-35°23'31.0"	2.230 aE	1.752 aE	13.7	18:00	22:39	20:19	+ 5°	S	SCL
Sa.	13.Nov 2021	23h27'16.1"	-35° 5'40.4"	2.238 aE	1.769 aE	13.7	17:53	22:40	20:16	+ 5°	S	SCL
So.	14.Nov 2021	23h27'59.0"	-34°47'51.7"	2.245 aE	1.786 aE	13.8	17:46	22:40	20:13	+ 5°	S	SCL
Mo.	15.Nov 2021	23h28'42.8"	-34°30' 5.3"	2.253 aE	1.804 aE	13.8	17:40	22:40	20:09	+ 6°	S	SCL
Di.	16.Nov 2021	23h29'27.4"	-34°12'21.0"	2.261 aE	1.821 aE	13.8	17:33	22:40	20:06	+ 6°	S	SCL
Mi.	17.Nov 2021	23h30'13.0"	-33°54'39.2"	2.268 aE	1.838 aE	13.9	17:27	22:40	20:03	+ 6°	S	SCL
Do.	18.Nov 2021	23h30'59.3"	-33°36'59.8"	2.276 aE	1.856 aE	13.9	17:20	22:40	20:00	+ 7°	S	SCL
Fr.	19.Nov 2021	23h31'46.5"	-33°19'23.0"	2.284 aE	1.873 aE	13.9	17:14	22:40	19:57	+ 7°	S	SCL
Sa.	20.Nov 2021	23h32'34.5"	-33° 1'48.8"	2.291 aE	1.891 aE	14.0	17:08	22:40	19:54	+ 7°	S	SCL
So.	21.Nov 2021	23h33'23.3"	-32°44'17.3"	2.299 aE	1.909 aE	14.0	17:02	22:40	19:50	+ 8°	S	SCL
Mo.	22.Nov 2021	23h34'12.8"	-32°26'48.7"	2.306 aE	1.926 aE	14.1	16:56	22:39	19:47	+ 8°	S	SCL
Di.	23.Nov 2021	23h35' 3.1"	-32° 9'22.9"	2.314 aE	1.944 aE	14.1	16:50	22:39	19:44	+ 8°	S	SCL
Mi.	24.Nov 2021	23h35'54.1"	-31°52' 0.0"	2.321 aE	1.962 aE	14.1	16:45	22:39	19:41	+ 8°	S	SCL
Do.	25.Nov 2021	23h36'45.8"	-31°34'40.1"	2.329 aE	1.980 aE	14.2	16:39	22:38	19:38	+ 9°	S	SCL
Fr.	26.Nov 2021	23h37'38.2"	-31°17'23.2"	2.337 aE	1.998 aE	14.2	16:33	22:38	19:35	+ 9°	S	SCL
Sa.	27.Nov 2021	23h38'31.2"	-31° 0' 9.5"	2.344 aE	2.016 aE	14.2	16:28	22:37	19:32	+ 9°	S	SCL
So.	28.Nov 2021	23h39'24.9"	-30°42'58.8"	2.352 aE	2.034 aE	14.3	16:22	22:37	19:29	+10°	S	SCL
Mo.	29.Nov 2021	23h40'19.2"	-30°25'51.3"	2.359 aE	2.053 aE	14.3	16:17	22:36	19:26	+10°	S	SCL
Di.	30.Nov 2021	23h41'14.2"	-30° 8'46.9"	2.367 aE	2.071 aE	14.3	16:11	22:36	19:23	+10°	S	SCL
Mi.	01.Dez 2021	23h42' 9.7"	-29°51'45.8"	2.374 aE	2.089 aE	14.4	16:06	22:35	19:20	+10°	S	SCL
Do.	02.Dez 2021	23h43' 5.9"	-29°34'48.0"	2.382 aE	2.108 aE	14.4	16:00	22:34	19:17	+11°	S	SCL
Fr.	03.Dez 2021	23h44' 2.6"	-29°17'53.5"	2.389 aE	2.126 aE	14.4	15:55	22:34	19:14	+11°	S	SCL
Sa.	04.Dez 2021	23h44'59.9"	-29° 1' 2.4"	2.397 aE	2.145 aE	14.5	15:50	22:33	19:11	+11°	S	SCL
So.	05.Dez 2021	23h45'57.8"	-28°44'14.6"	2.404 aE	2.163 aE	14.5	15:45	22:32	19:08	+11°	S	SCL
Mo.	06.Dez 2021	23h46'56.2"	-28°27'30.3"	2.412 aE	2.182 aE	14.5	15:40	22:31	19:05	+12°	S	SCL
Di.	07.Dez 2021	23h47'55.1"	-28°10'49.5"	2.419 aE	2.200 aE	14.5	15:35	22:31	19:02	+12°	S	SCL
Mi.	08.Dez 2021	23h48'54.5"	-27°54'12.3"	2.427 aE	2.219 aE	14.6	15:30	22:30	18:59	+12°	S	SCL
Do.	09.Dez 2021	23h49'54.4"	-27°37'38.7"	2.434 aE	2.238 aE	14.6	15:25	22:29	18:56	+13°	S	SCL
Fr.	10.Dez 2021	23h50'54.8"	-27°21' 8.7"	2.442 aE	2.256 aE	14.6	15:20	22:28	18:53	+13°	S	SCL
Sa.	11.Dez 2021	23h51'55.7"	-27° 4'42.5"	2.449 aE	2.275 aE	14.7	15:15	22:27	18:50	+13°	S	SCL
So.	12.Dez 2021	23h52'57.0"	-26°48'19.9"	2.456 aE	2.294 aE	14.7	15:10	22:26	18:47	+13°	S	SCL
Mo.	13.Dez 2021	23h53'58.8"	-26°32' 1.2"	2.464 aE	2.313 aE	14.7	15:05	22:25	18:45	+14°	S	SCL
Di.	14.Dez 2021	23h55' 1.0"	-26°15'46.2"	2.471 aE	2.331 aE	14.8	15:00	22:24	18:42	+14°	S	SCL
Mi.	15.Dez 2021	23h56' 3.6"	-25°59'35.1"	2.479 aE	2.350 aE	14.8	14:55	22:23	18:39	+14°	S	SCL
Do.	16.Dez 2021	23h57' 6.6"	-25°43'27.7"	2.486 aE	2.369 aE	14.8	14:51	22:22	18:36	+14°	S	SCL
Fr.	17.Dez 2021	23h58'10.0"	-25°27'24.3"	2.493 aE	2.388 aE	14.9	14:46	22:21	18:33	+15°	S	SCL
Sa.	18.Dez 2021	23h59'13.7"	-25°11'24.7"	2.501 aE	2.407 aE	14.9	14:41	22:20	18:30	+15°	S	SCL
So.	19.Dez 2021	0h 0'17.8"	-24°55'28.9"	2.508 aE	2.426 aE	14.9	14:36	22:19	18:27	+15°	S	SCL
Mo.	20.Dez 2021	0h 1'22.3"	-24°39'37.0"	2.515 aE	2.445 aE	14.9	14:32	22:18	18:24	+16°	S	CET
Di.	21.Dez 2021	0h 2'27.2"	-24°23'49.1"	2.523 aE	2.464 aE	15.0	14:27	22:17	18:22	+16°	S	CET

Der Komet 7P/Pons-Winnecke im Jahre 2021

berechnet für den Standort Mitteldeutschland

Ephemeride des Kometen 7P/Pons-Winnecke

	Datum	Rektaszens.	Deklination	r	Delta	Hell.	Aufg.	Untg.	TOpt.	Höhe	Ri.	Stb
Mi.	22.Dez 2021	0h 3'32.3"	-24° 8' 5.0"	2.530 aE	2.483 aE	15.0	14:23	22:16	18:19	+16°	S	CET
Do.	23.Dez 2021	0h 4'37.8"	-23°52'24.7"	2.537 aE	2.502 aE	15.0	14:18	22:15	18:16	+16°	S	CET
Fr.	24.Dez 2021	0h 5'43.6"	-23°36'48.4"	2.545 aE	2.521 aE	15.1	14:14	22:13	18:13	+17°	S	CET
Sa.	25.Dez 2021	0h 6'49.7"	-23°21'15.9"	2.552 aE	2.540 aE	15.1	14:09	22:12	18:10	+17°	S	CET
So.	26.Dez 2021	0h 7'56.2"	-23° 5'47.3"	2.559 aE	2.559 aE	15.1	14:05	22:11	18:07	+17°	S	CET
Mo.	27.Dez 2021	0h 9' 2.9"	-22°50'22.6"	2.567 aE	2.578 aE	15.2	14:00	22:10	18:05	+17°	S	CET
Di.	28.Dez 2021	0h10' 9.9"	-22°35' 1.8"	2.574 aE	2.597 aE	15.2	13:56	22:09	18:02	+18°	S	CET
Mi.	29.Dez 2021	0h11'17.2"	-22°19'44.8"	2.581 aE	2.616 aE	15.2	13:51	22:08	17:59	+18°	S	CET
Do.	30.Dez 2021	0h12'24.8"	-22° 4'31.6"	2.589 aE	2.635 aE	15.2	13:47	22:06	17:56	+18°	S	CET
Fr.	31.Dez 2021	0h13'32.7"	-21°49'22.3"	2.596 aE	2.654 aE	15.3	13:43	22:05	17:53	+18°	S	CET
Sa.	01.Jan 2022	0h14'40.8"	-21°34'16.9"	2.603 aE	2.673 aE	15.3	13:38	22:04	17:50	+19°	S	CET
So.	02.Jan 2022	0h15'49.2"	-21°19'15.4"	2.610 aE	2.692 aE	15.3	13:34	22:02	17:50	+19°	S	CET
Mo.	03.Jan 2022	0h16'57.9"	-21° 4'17.7"	2.617 aE	2.711 aE	15.3	13:30	22:01	17:51	+19°	S	CET
Di.	04.Jan 2022	0h18' 6.8"	-20°49'24.0"	2.625 aE	2.730 aE	15.4	13:25	22:00	17:52	+19°	S	CET
Mi.	05.Jan 2022	0h19'16.0"	-20°34'34.2"	2.632 aE	2.749 aE	15.4	13:21	21:59	17:53	+20°	S	CET
Do.	06.Jan 2022	0h20'25.3"	-20°19'48.4"	2.639 aE	2.768 aE	15.4	13:17	21:57	17:54	+20°	S	CET
Fr.	07.Jan 2022	0h21'35.0"	-20° 5' 6.5"	2.646 aE	2.787 aE	15.5	13:13	21:56	17:55	+20°	S	CET
Sa.	08.Jan 2022	0h22'44.8"	-19°50'28.6"	2.653 aE	2.806 aE	15.5	13:08	21:55	17:56	+20°	S	CET
So.	09.Jan 2022	0h23'54.8"	-19°35'54.7"	2.661 aE	2.825 aE	15.5	13:04	21:53	17:57	+20°	S	CET
Mo.	10.Jan 2022	0h25' 5.0"	-19°21'24.9"	2.668 aE	2.843 aE	15.5	13:00	21:52	17:58	+20°	S	CET
Di.	11.Jan 2022	0h26'15.5"	-19° 6'59.0"	2.675 aE	2.862 aE	15.6	12:56	21:50	17:59	+21°	S	CET
Mi.	12.Jan 2022	0h27'26.1"	-18°52'37.2"	2.682 aE	2.881 aE	15.6	12:52	21:49	18:01	+21°	S	CET
Do.	13.Jan 2022	0h28'36.9"	-18°38'19.4"	2.689 aE	2.900 aE	15.6	12:48	21:48	18:02	+21°	S	CET
Fr.	14.Jan 2022	0h29'47.9"	-18°24' 5.7"	2.696 aE	2.918 aE	15.6	12:44	21:46	18:03	+21°	S	CET
Sa.	15.Jan 2022	0h30'59.0"	-18° 9'56.0"	2.703 aE	2.937 aE	15.7	12:40	21:45	18:04	+21°	S	CET
So.	16.Jan 2022	0h32'10.3"	-17°55'50.3"	2.710 aE	2.956 aE	15.7	12:36	21:43	18:06	+21°	S	CET
Mo.	17.Jan 2022	0h33'21.8"	-17°41'48.7"	2.718 aE	2.974 aE	15.7	12:31	21:42	18:07	+21°	S	CET
Di.	18.Jan 2022	0h34'33.4"	-17°27'51.1"	2.725 aE	2.993 aE	15.7	12:27	21:40	18:08	+21°	S	CET
Mi.	19.Jan 2022	0h35'45.2"	-17°13'57.6"	2.732 aE	3.011 aE	15.8	12:23	21:39	18:10	+21°	S	CET
Do.	20.Jan 2022	0h36'57.1"	-17° 0' 8.0"	2.739 aE	3.030 aE	15.8	12:19	21:38	18:11	+21°	S	CET
Fr.	21.Jan 2022	0h38' 9.2"	-16°46'22.5"	2.746 aE	3.048 aE	15.8	12:15	21:36	18:12	+21°	S	CET
Sa.	22.Jan 2022	0h39'21.4"	-16°32'41.0"	2.753 aE	3.067 aE	15.8	12:11	21:35	18:14	+21°	S	CET
So.	23.Jan 2022	0h40'33.7"	-16°19' 3.5"	2.760 aE	3.085 aE	15.9	12:08	21:33	18:15	+21°	SW	CET
Mo.	24.Jan 2022	0h41'46.2"	-16° 5'30.0"	2.767 aE	3.103 aE	15.9	12:04	21:32	18:16	+21°	SW	CET
Di.	25.Jan 2022	0h42'58.8"	-15°52' 0.4"	2.774 aE	3.121 aE	15.9	12:00	21:30	18:18	+21°	SW	CET
Mi.	26.Jan 2022	0h44'11.5"	-15°38'34.9"	2.781 aE	3.139 aE	15.9	11:56	21:29	18:19	+21°	SW	CET
Do.	27.Jan 2022	0h45'24.4"	-15°25'13.3"	2.788 aE	3.158 aE	15.9	11:52	21:27	18:21	+21°	SW	CET
Fr.	28.Jan 2022	0h46'37.3"	-15°11'55.7"	2.795 aE	3.176 aE	16.0	11:48	21:25	18:22	+21°	SW	CET
Sa.	29.Jan 2022	0h47'50.4"	-14°58'42.0"	2.802 aE	3.194 aE	16.0	11:44	21:24	18:24	+21°	SW	CET