

# Der Komet 24P/Schaumasse im Jahre 2017

## berechnet für den Standort Mitteldeutschland

### Die Bahnelemente:

|                                 |                          |
|---------------------------------|--------------------------|
| Periheldurchgang                | 2017-November-12.3470000 |
| Bahnexzentrizität               | 0.7081500                |
| Periheldistanz                  | 1.1829710 aE             |
| große halbe Bahnachse           | 4.053353 aE              |
| Umlaufzeit in Jahren            | 8.160745                 |
| Länge des aufsteigenden Knotens | 78.557400 Grad           |
| Perihellänge                    | 58.290600 Grad           |
| Bahnneigung                     | 11.527600 Grad           |
| Grundhelligkeit                 | 6.5 mag.                 |
| Luminiszenzfaktor               | 14.00                    |

### erweiterte Helligkeitsparameter:

Zeitraum T-9999.0 bis T-90.0:  $m = 12.0 + 5.0 \cdot \log d + 2.5 \times 6.8 \cdot \log r$

Zeitraum T-90.0 bis T+0.0:  $m = 6.0 + 5.0 \cdot \log d + 2.5 \times 18.0 \cdot \log r$

Zeitraum T+0.0 bis T+170.0:  $m = 7.2 + 5.0 \cdot \log d + 2.5 \times 12.0 \cdot \log r$

Zeitraum T+170.0 bis T+9999.0:  $m = 12.0 + 5.0 \cdot \log d + 2.5 \times 6.8 \cdot \log r$

### Details zur Sichtbarkeit

größte Sonnennähe: 1.18297 aE am 10.01.2026

größte Erdnähe : 0.56595 aE am 06.01.2026

größte Helligkeit: 12.0 am 09.01.2026

Grenzgröße der Analyse: 16.0

ab 14.10.2025 morgens sichtbar mit Helligkeit 16.0

positioniert im Sternbild GEM, Helligkeit 16.0

ab 01.11.2025 Übergang ins Sternbild CNC, Helligkeit 14.8

ab 22.11.2025 Übergang ins Sternbild LEO, Helligkeit 13.5

ab 23.12.2025 Übergang ins Sternbild COM, Helligkeit 12.2

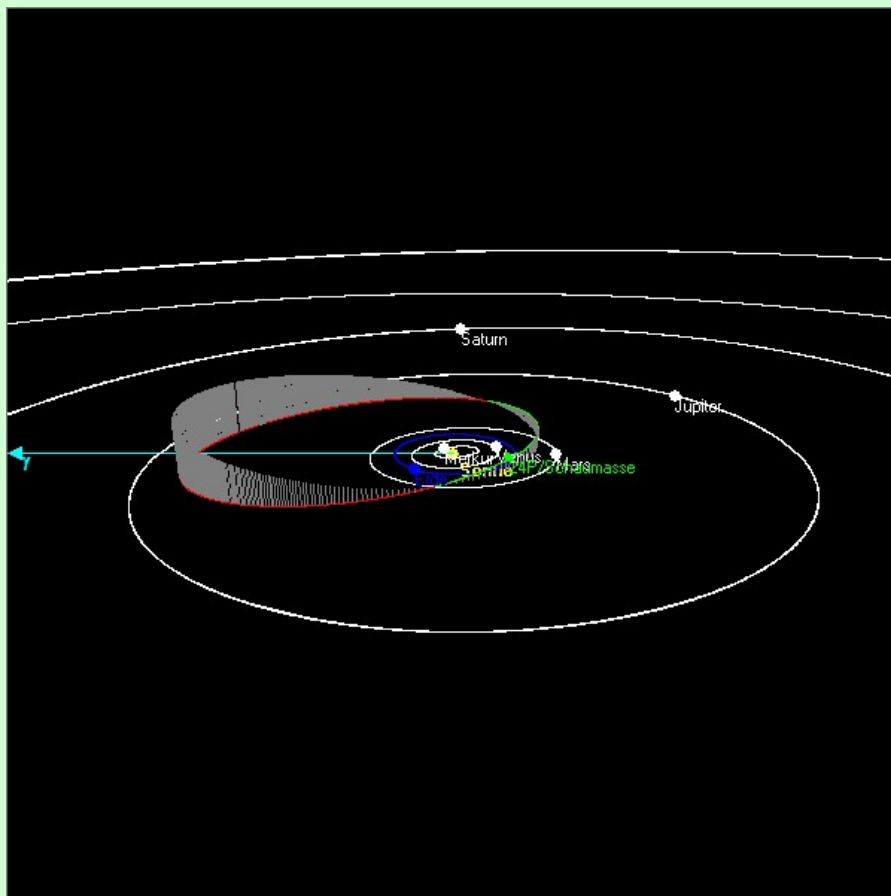
ab 31.12.2025 Ende des Analysezeitraums

ab 08.01.2026 Übergang ins Sternbild VIR, Helligkeit 12.0

ab 14.01.2026 Übergang ins Sternbild BOO, Helligkeit 12.0

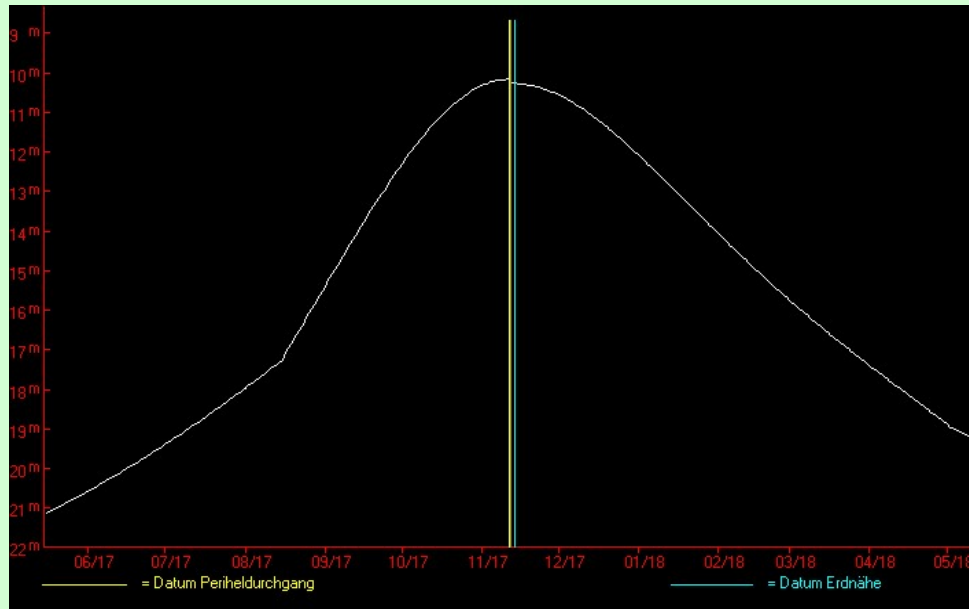
ab 20.02.2026 Übergang ins Sternbild SER, Helligkeit 12.9

ab 05.04.2026 Übergang ins Sternbild VIR, Helligkeit 14.6

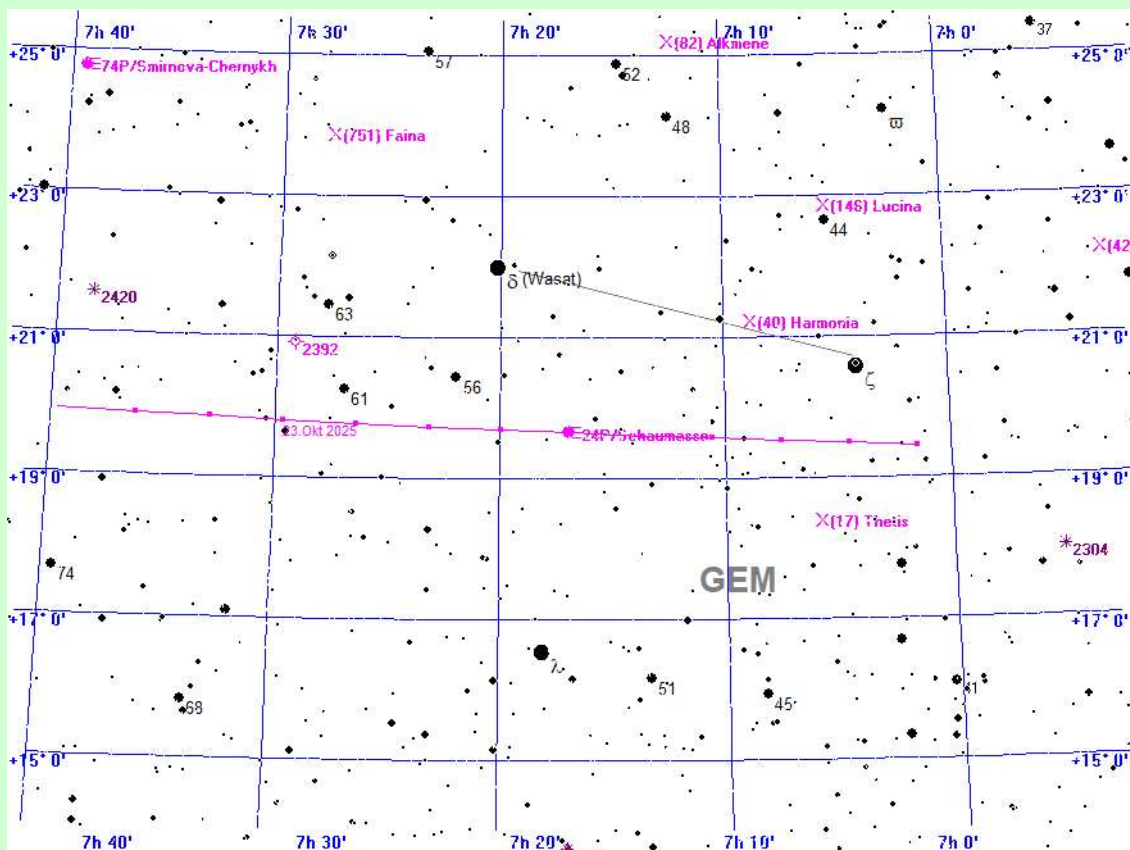


Die Bahn des Kometen 24P/Schaumasse

# Der Komet 24P/Schaumasse im Jahre 2017 berechnet für den Standort Mitteldeutschland

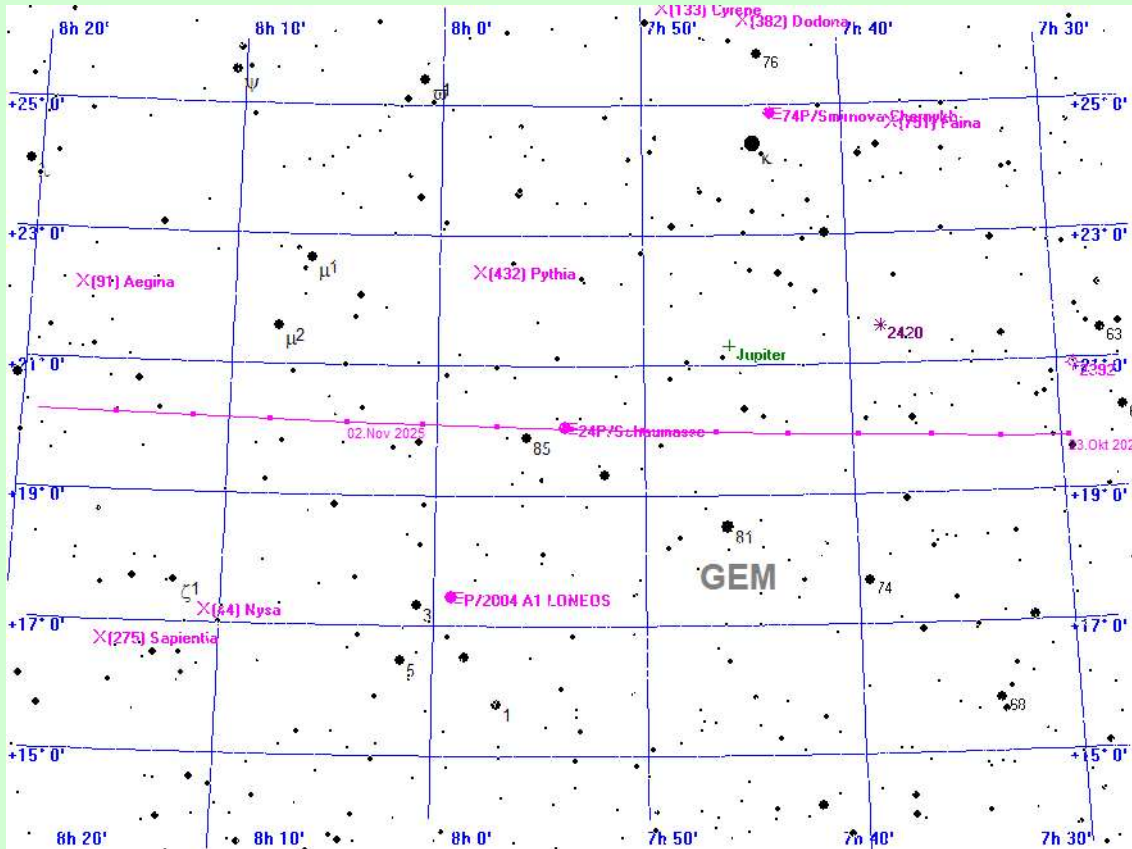


Die Lichtkurve des Kometen 24P/Schaumasse

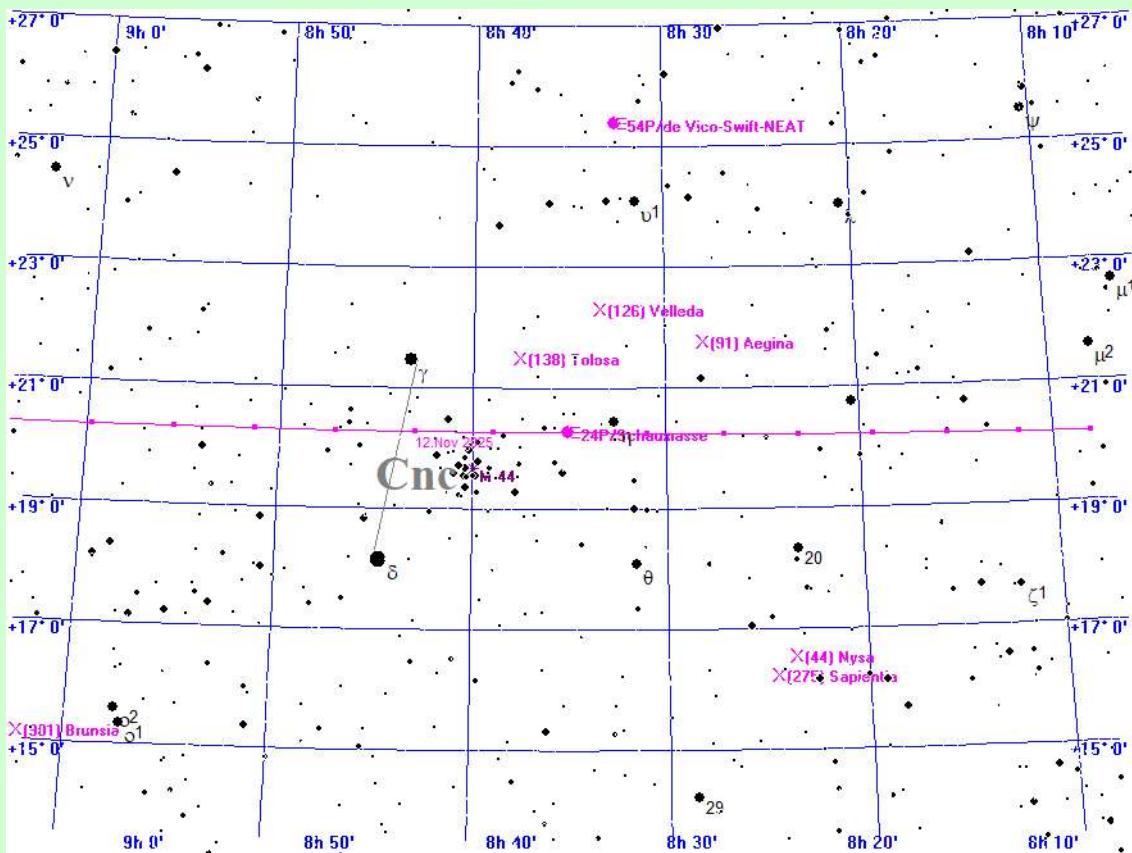


24P/Schaumasse am 19.10.2025

**berechnet für den Standort Mitteldeutschland**

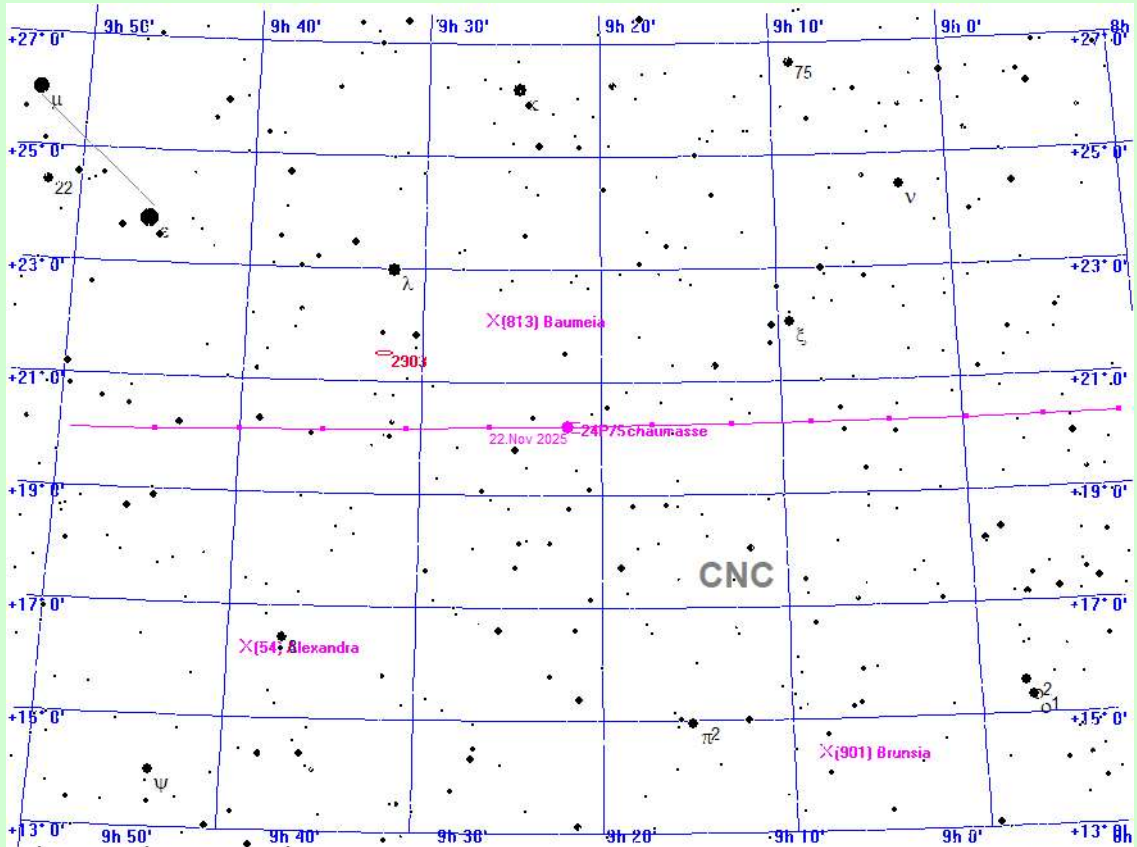


## 24P/Schaumasse am 30.10.2025

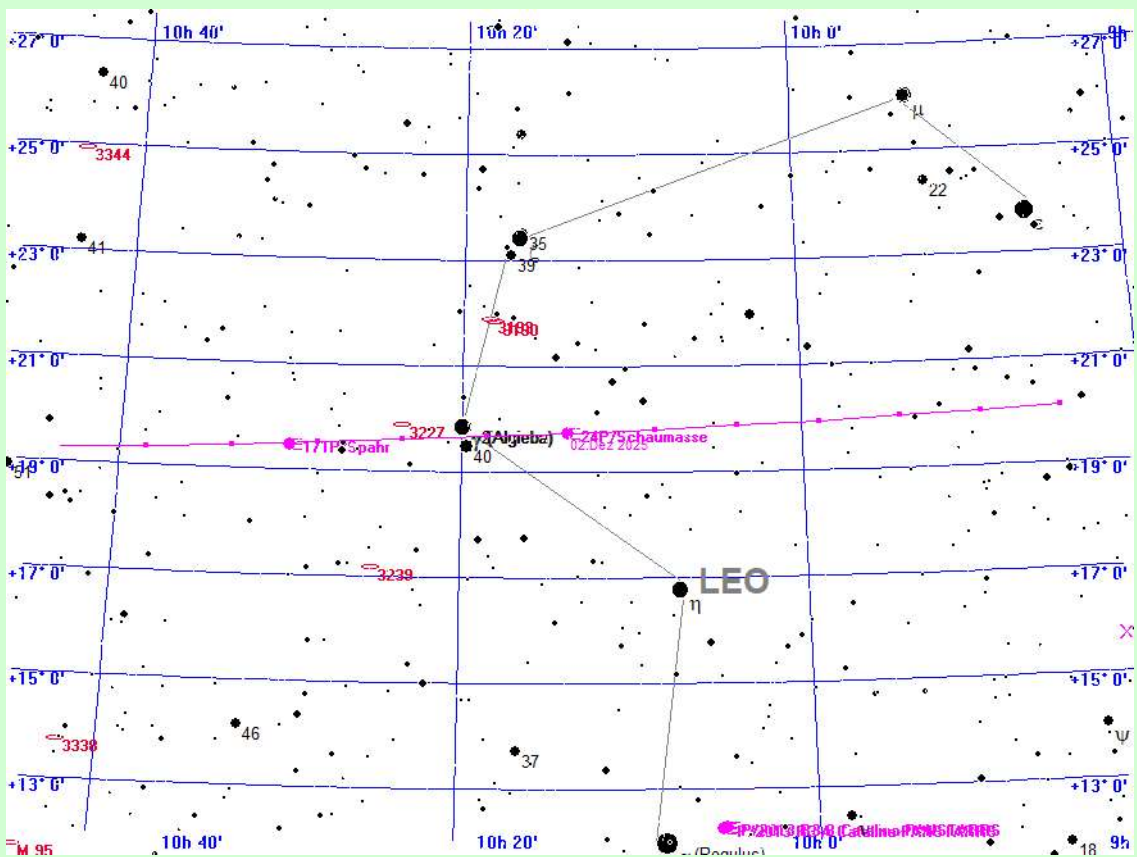


## 24P/Schaumasse am 10.11.2025

## Der Komet 24P/Schaumasse im Jahre 2017



## 24P/Schaumasse am 21.11.2025

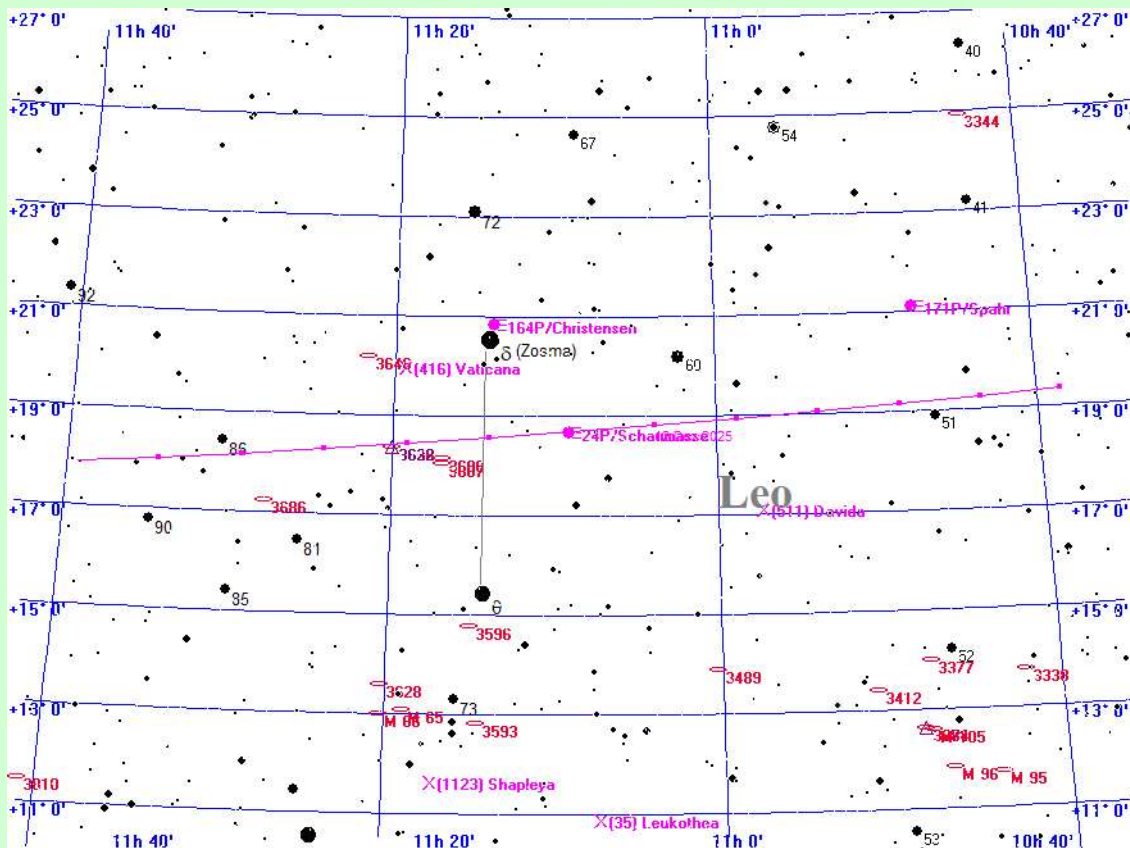


## 24P/Schaumasse am 2.12.2025

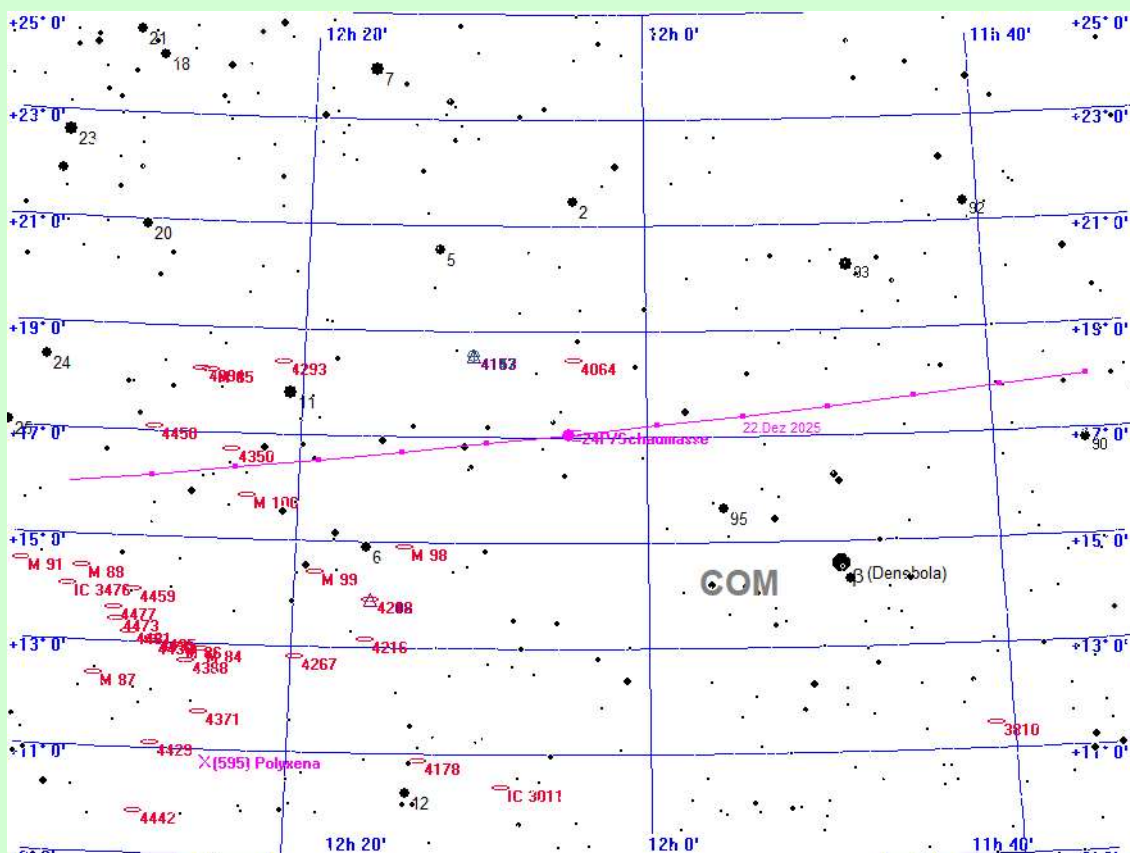


# Der Komet 24P/Schaumasse im Jahre 2017

## berechnet für den Standort Mitteldeutschland



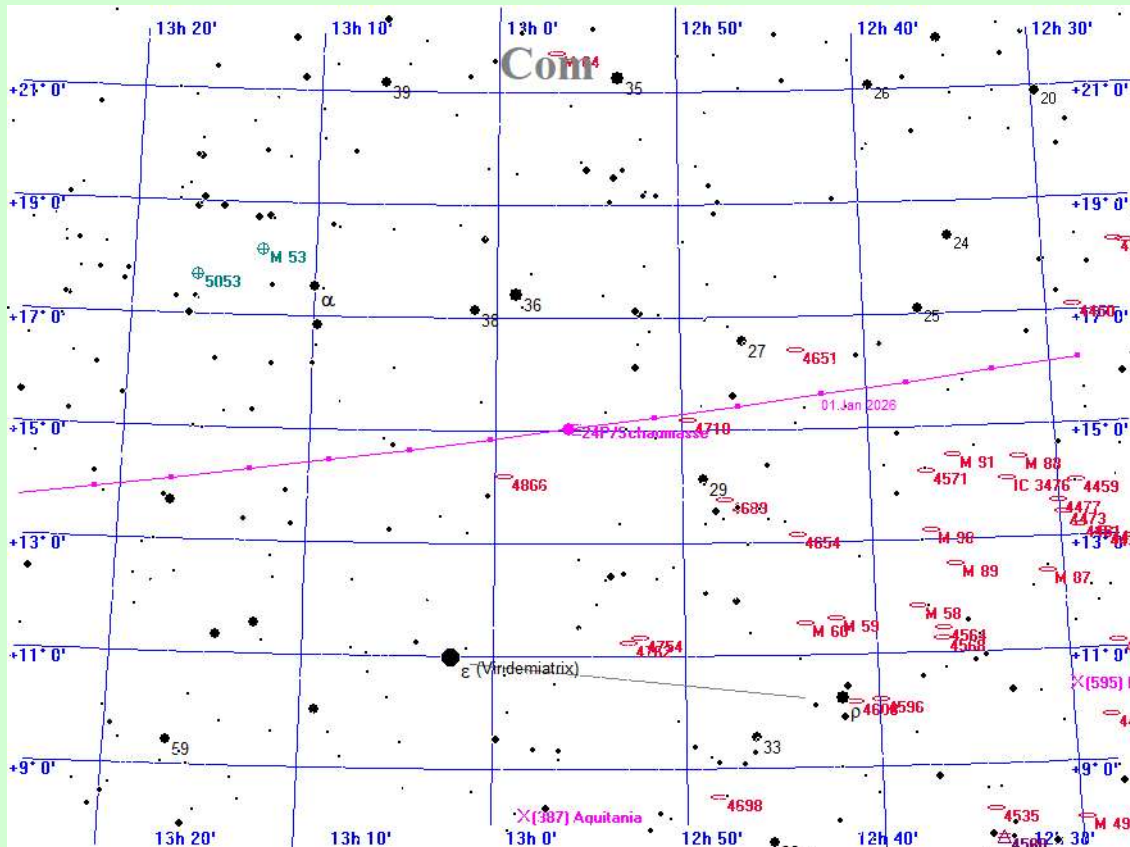
24P/Schaumasse am 13.12.2025



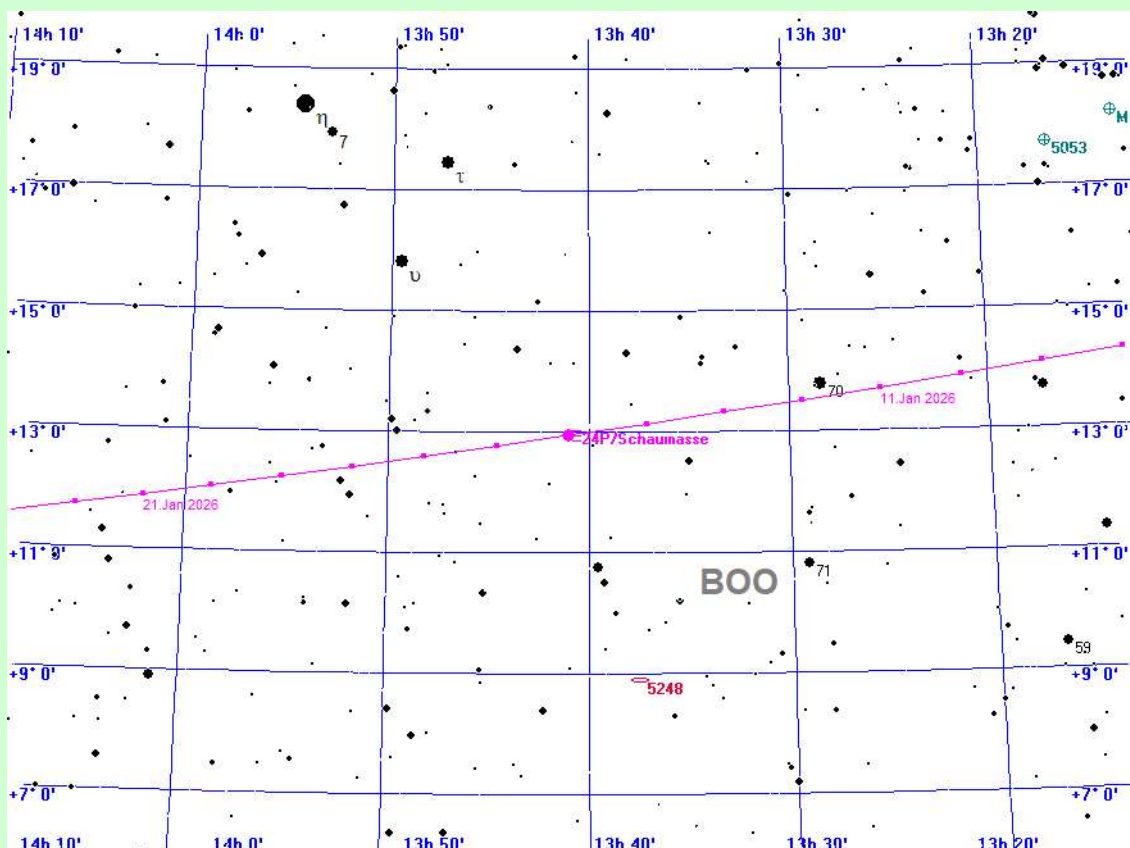
24P/Schaumasse am 24.12.2025

# Der Komet 24P/Schaumasse im Jahre 2017

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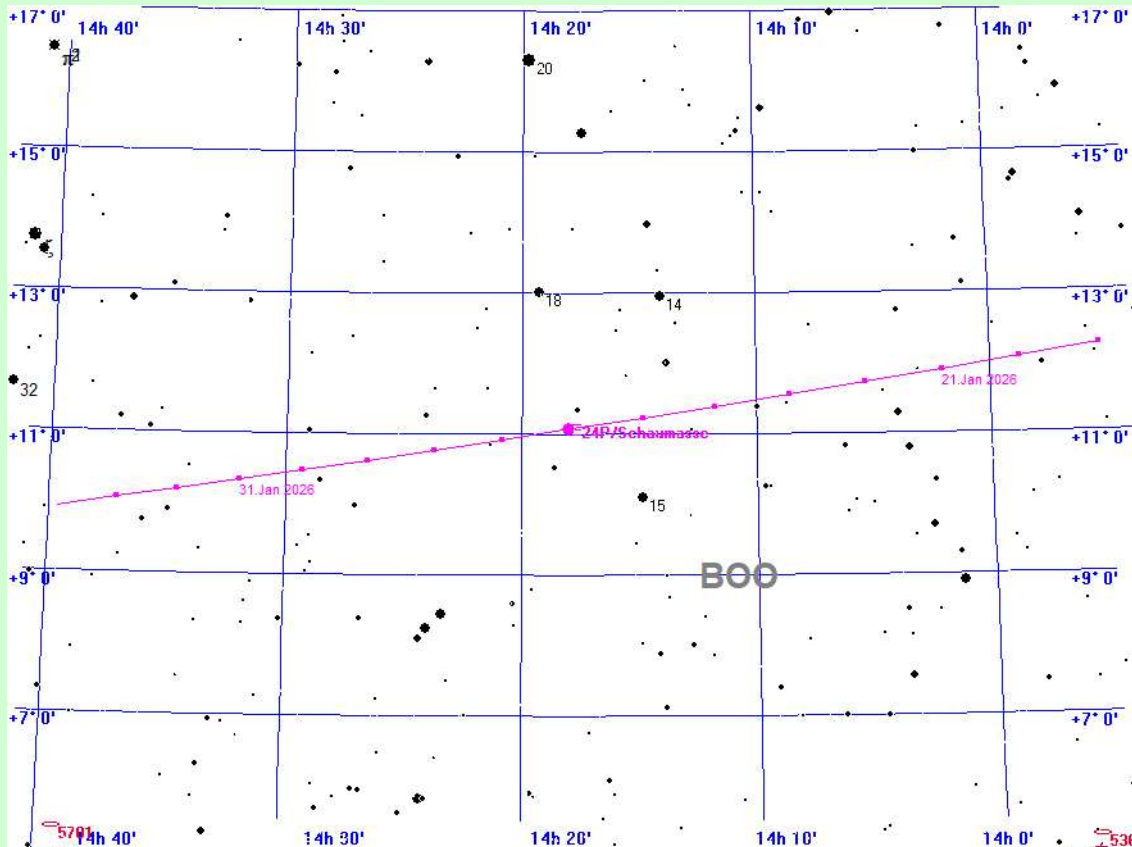
24P/Schaumasse am 4.1.2026



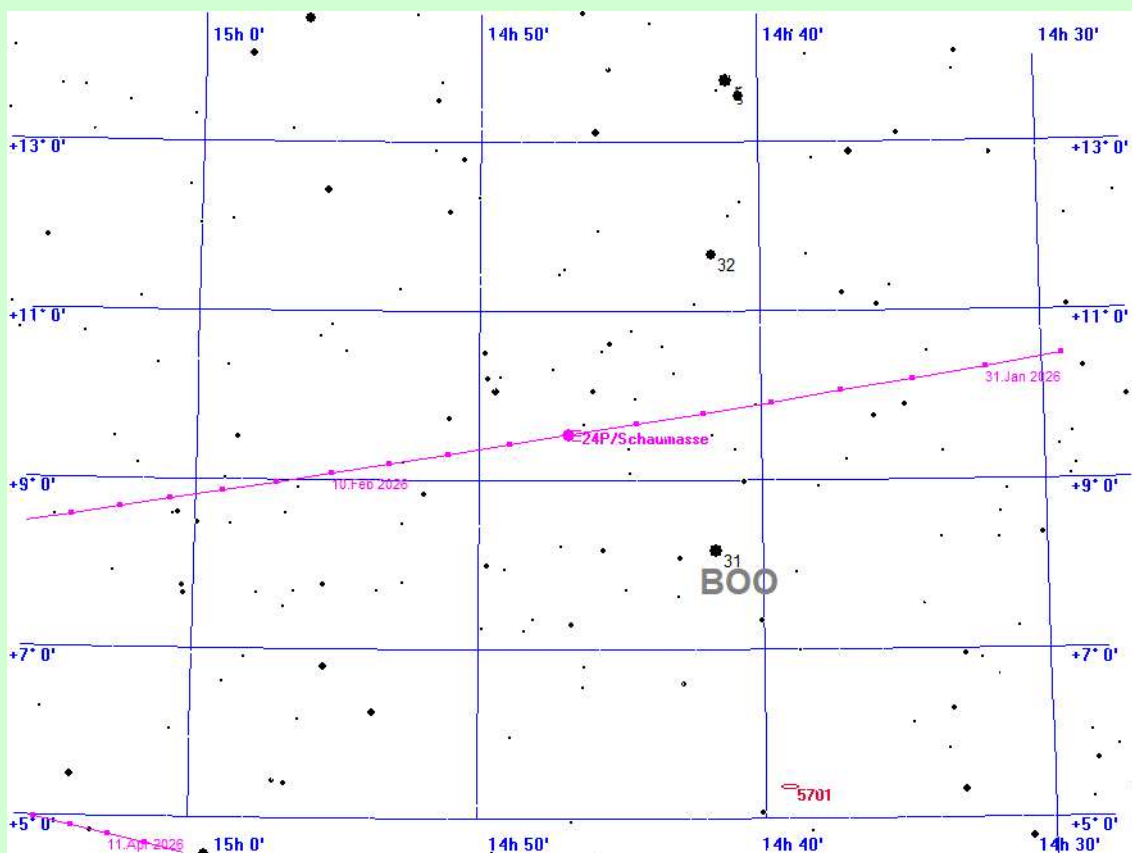
24P/Schaumasse am 15.1.2026

# Der Komet 24P/Schaumasse im Jahre 2017

## berechnet für den Standort Mitteldeutschland



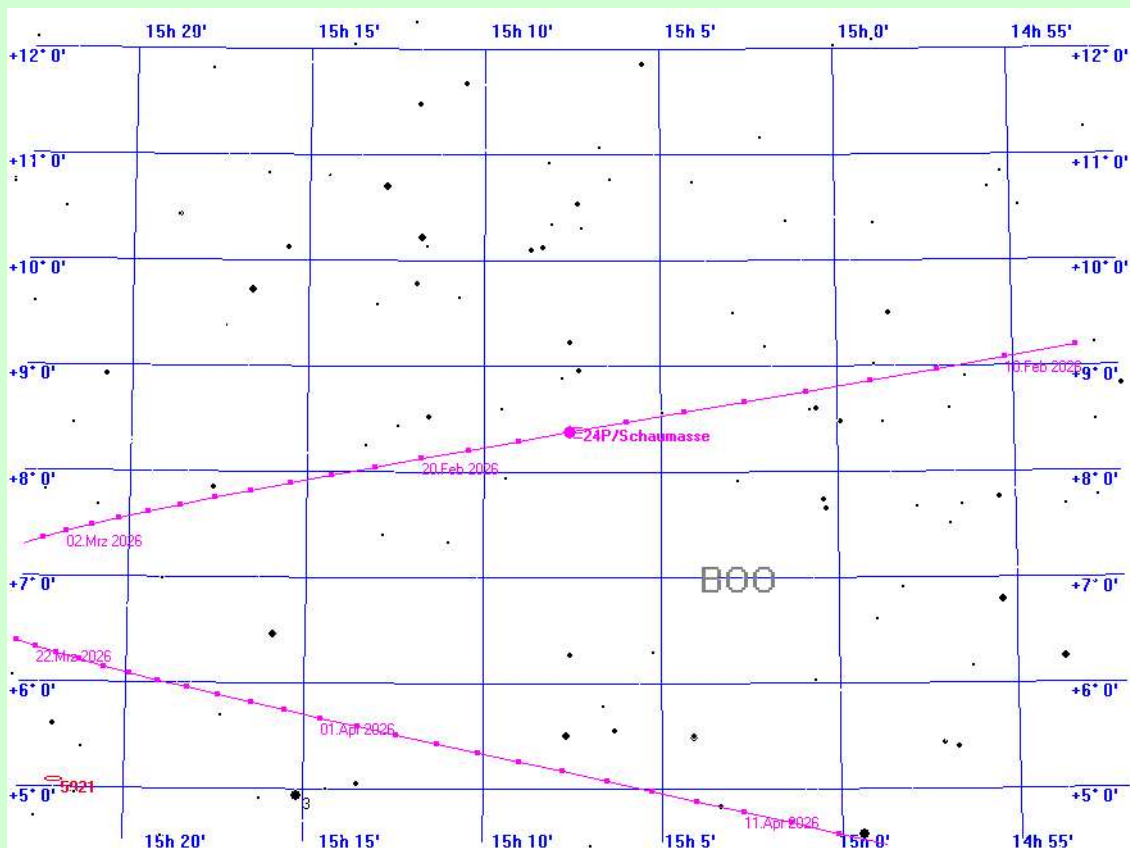
24P/Schaumasse am 26.1.2026



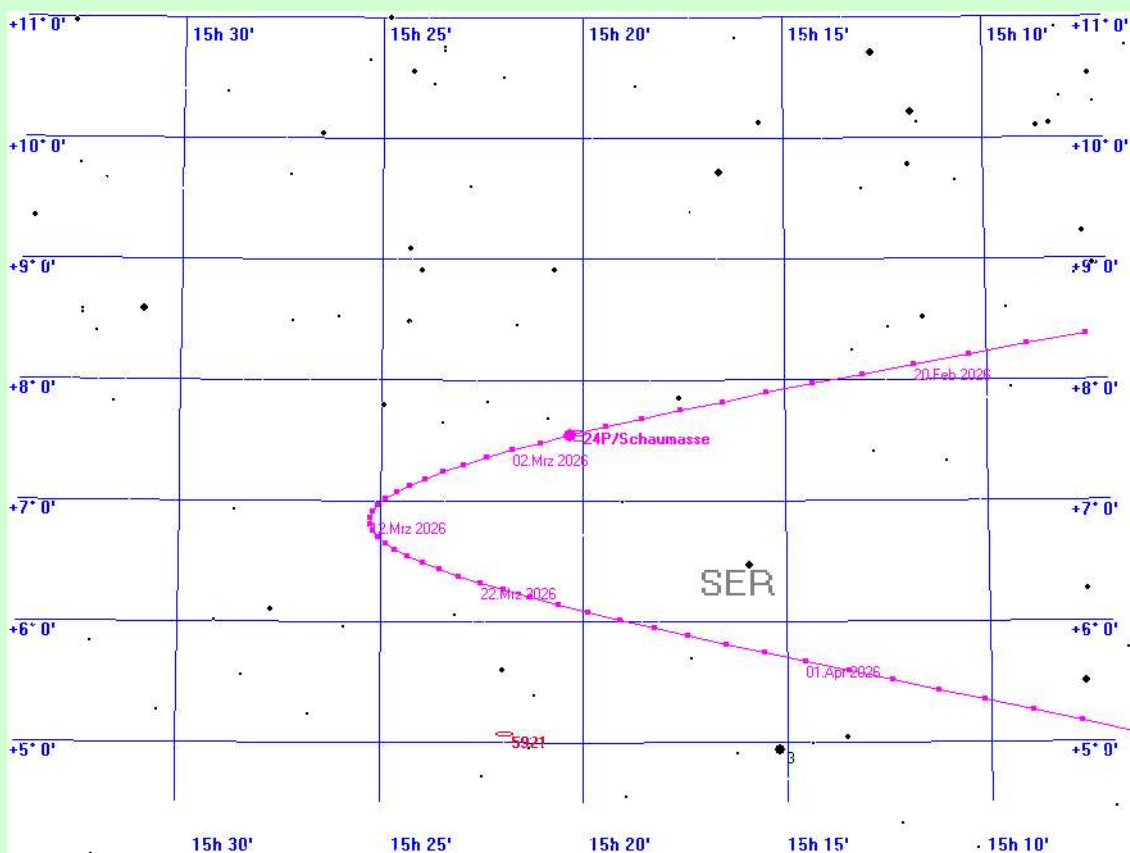
24P/Schaumasse am 6.2.2026

# Der Komet 24P/Schaumasse im Jahre 2017

## berechnet für den Standort Mitteldeutschland



24P/Schaumasse am 17.2.2026

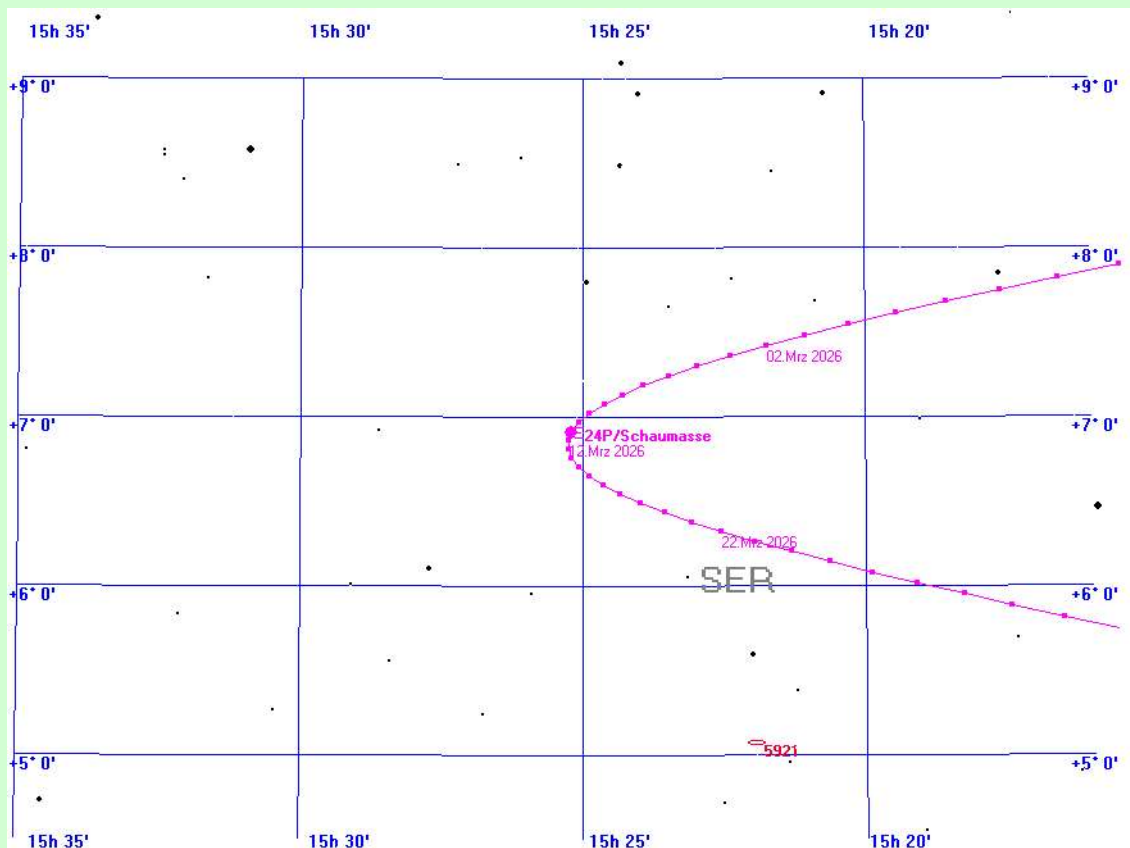


24P/Schaumasse am 28.2.2026

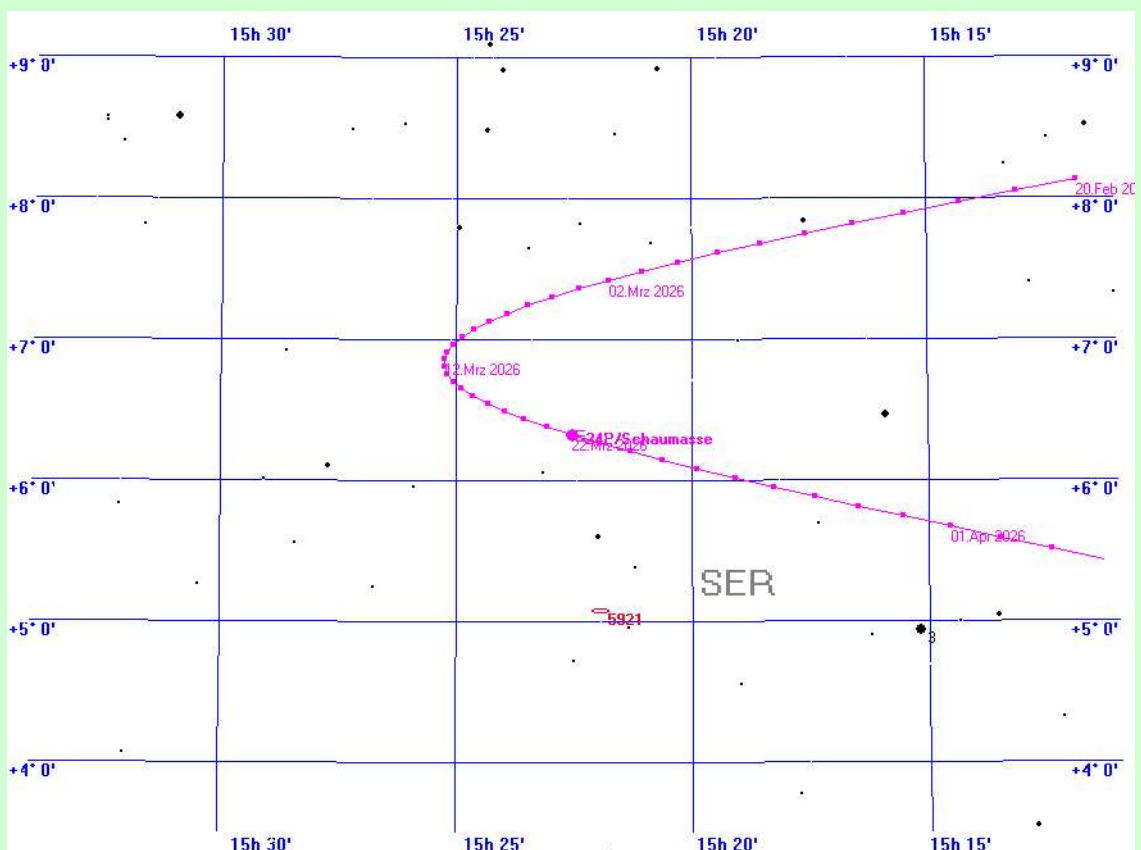


# Der Komet 24P/Schaumasse im Jahre 2017

## berechnet für den Standort Mitteldeutschland

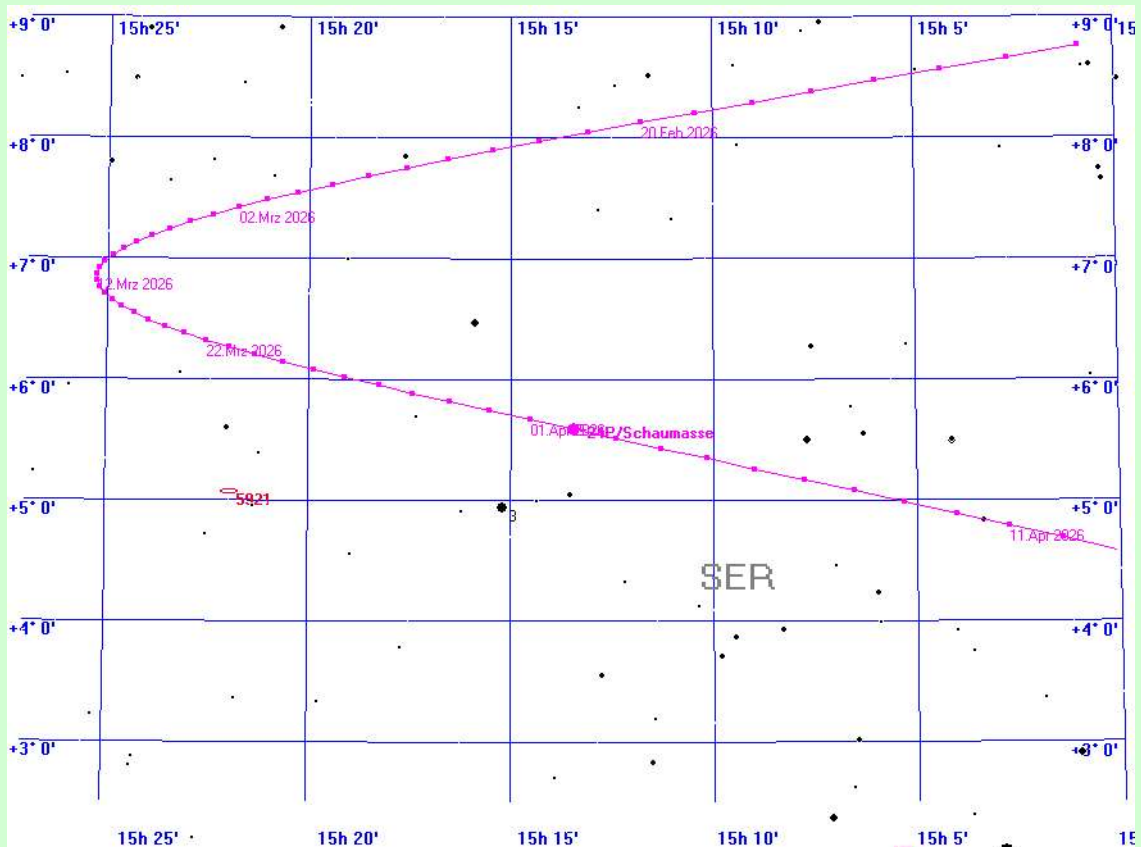


24P/Schaumasse am 11.3.2026

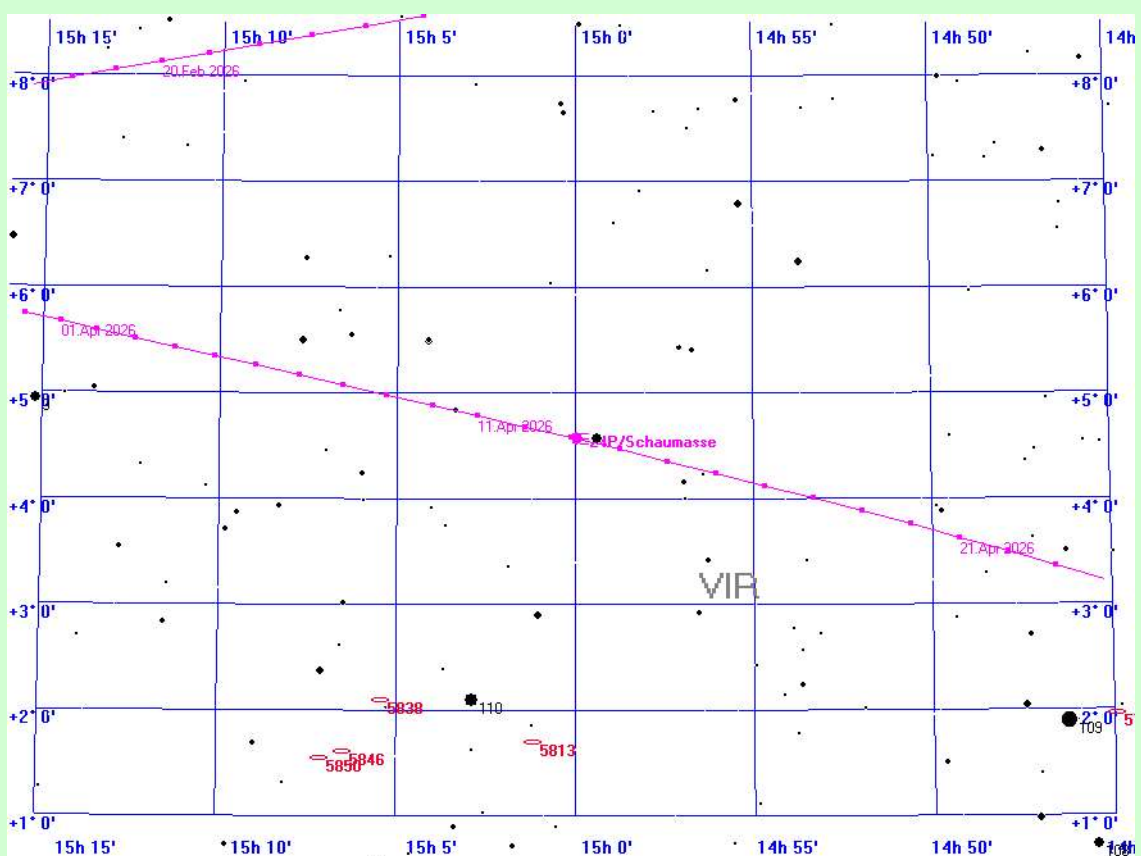


24P/Schaumasse am 22.3.2026

# Der Komet 24P/Schaumasse im Jahre 2017 berechnet für den Standort Mitteldeutschland



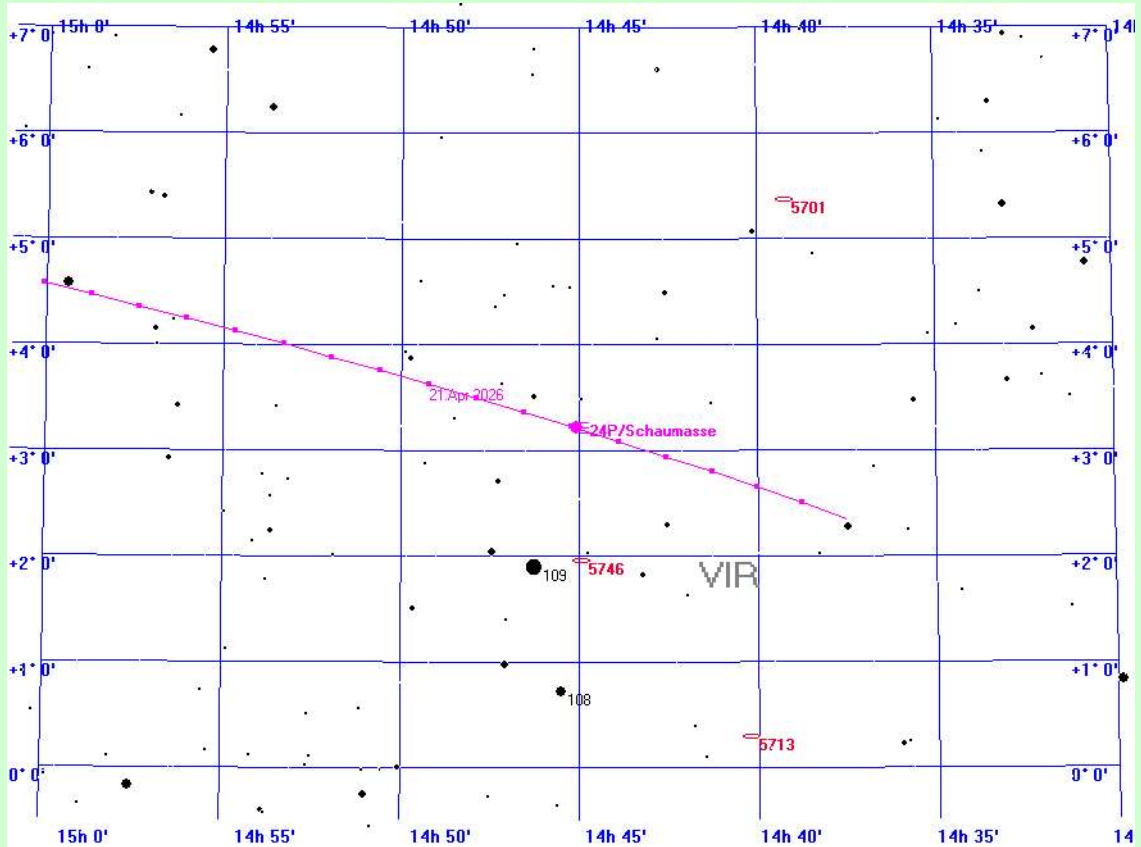
24P/Schaumasse am 2.4.2026



24P/Schaumasse am 13.4.2026

# Der Komet 24P/Schaumasse im Jahre 2017

## berechnet für den Standort Mitteldeutschland



24P/Schaumasse am 24.4.2017

**Der Komet 24P/Schaumasse im Jahre 2017**  
**berechnet für den Standort Mitteldeutschland**

**Ephemeride des Kometen 24P/Schaumasse**

|     | Datum       | Rektaszens. | Deklination  | r        | Delta    | Hell. | Aufg. | Untg. | TOpt. | Höhe | Azi | Stb |
|-----|-------------|-------------|--------------|----------|----------|-------|-------|-------|-------|------|-----|-----|
| Di. | 14.Okt 2025 | 7h 1'28.4"  | +19°26'33.6" | 1.629 aE | 1.188 aE | 16.0  | 23:06 | 14:35 | 05:52 | +57° | SO  | GEM |
| Mi. | 15.Okt 2025 | 7h 4'28.6"  | +19°29'10.6" | 1.621 aE | 1.174 aE | 15.9  | 23:05 | 14:34 | 05:54 | +58° | SO  | GEM |
| Do. | 16.Okt 2025 | 7h 7'30.6"  | +19°31'44.8" | 1.613 aE | 1.159 aE | 15.9  | 23:04 | 14:33 | 05:56 | +58° | SO  | GEM |
| Fr. | 17.Okt 2025 | 7h10'34.4"  | +19°34'16.1" | 1.605 aE | 1.145 aE | 15.8  | 23:03 | 14:33 | 05:57 | +58° | S   | GEM |
| Sa. | 18.Okt 2025 | 7h13'40.0"  | +19°36'44.5" | 1.597 aE | 1.131 aE | 15.7  | 23:02 | 14:32 | 05:59 | +58° | S   | GEM |
| So. | 19.Okt 2025 | 7h16'47.5"  | +19°39'10.0" | 1.589 aE | 1.117 aE | 15.7  | 23:01 | 14:32 | 06:00 | +58° | S   | GEM |
| Mo. | 20.Okt 2025 | 7h19'56.8"  | +19°41'32.5" | 1.581 aE | 1.103 aE | 15.6  | 23:00 | 14:31 | 06:02 | +59° | S   | GEM |
| Di. | 21.Okt 2025 | 7h23' 8.1"  | +19°43'51.9" | 1.573 aE | 1.089 aE | 15.5  | 22:59 | 14:31 | 06:03 | +59° | S   | GEM |
| Mi. | 22.Okt 2025 | 7h26'21.4"  | +19°46' 8.1" | 1.565 aE | 1.076 aE | 15.5  | 22:58 | 14:30 | 06:05 | +59° | S   | GEM |
| Do. | 23.Okt 2025 | 7h29'36.7"  | +19°48'21.1" | 1.558 aE | 1.062 aE | 15.4  | 22:57 | 14:30 | 06:06 | +59° | S   | GEM |
| Fr. | 24.Okt 2025 | 7h32'54.0"  | +19°50'30.7" | 1.550 aE | 1.049 aE | 15.3  | 22:56 | 14:29 | 06:08 | +59° | S   | GEM |
| Sa. | 25.Okt 2025 | 7h36'13.5"  | +19°52'36.9" | 1.542 aE | 1.036 aE | 15.3  | 22:55 | 14:29 | 06:09 | +59° | S   | GEM |
| So. | 26.Okt 2025 | 7h39'43.5"  | +19°54'44.9" | 1.534 aE | 1.022 aE | 15.2  | 21:54 | 13:28 | 05:11 | +59° | S   | GEM |
| Mo. | 27.Okt 2025 | 7h43' 7.4"  | +19°56'43.5" | 1.526 aE | 1.009 aE | 15.1  | 21:54 | 13:28 | 05:12 | +59° | S   | GEM |
| Di. | 28.Okt 2025 | 7h46'33.5"  | +19°58'38.1" | 1.519 aE | 0.996 aE | 15.1  | 21:53 | 13:28 | 05:14 | +60° | S   | GEM |
| Mi. | 29.Okt 2025 | 7h50' 1.9"  | +20° 0'28.6" | 1.511 aE | 0.984 aE | 15.0  | 21:53 | 13:28 | 05:15 | +60° | S   | GEM |
| Do. | 30.Okt 2025 | 7h53'32.6"  | +20° 2'14.8" | 1.504 aE | 0.971 aE | 14.9  | 21:52 | 13:27 | 05:17 | +60° | S   | GEM |
| Fr. | 31.Okt 2025 | 7h57' 5.7"  | +20° 3'56.4" | 1.496 aE | 0.959 aE | 14.9  | 21:51 | 13:27 | 05:18 | +60° | S   | GEM |
| Sa. | 01.Nov 2025 | 8h 0'41.2"  | +20° 5'33.2" | 1.489 aE | 0.947 aE | 14.8  | 21:51 | 13:27 | 05:20 | +60° | S   | CNC |
| So. | 02.Nov 2025 | 8h 4'19.1"  | +20° 7' 4.9" | 1.481 aE | 0.935 aE | 14.8  | 21:51 | 13:27 | 05:21 | +60° | S   | CNC |
| Mo. | 03.Nov 2025 | 8h 7'59.5"  | +20° 8'31.3" | 1.474 aE | 0.923 aE | 14.7  | 21:50 | 13:27 | 05:23 | +60° | S   | CNC |
| Di. | 04.Nov 2025 | 8h11'42.5"  | +20° 9'52.1" | 1.467 aE | 0.912 aE | 14.6  | 21:50 | 13:27 | 05:24 | +60° | S   | CNC |
| Mi. | 05.Nov 2025 | 8h15'28.0"  | +20°11' 7.0" | 1.460 aE | 0.900 aE | 14.6  | 21:50 | 13:27 | 05:25 | +60° | S   | CNC |
| Do. | 06.Nov 2025 | 8h19'16.1"  | +20°12'15.7" | 1.452 aE | 0.889 aE | 14.5  | 21:49 | 13:27 | 05:27 | +60° | S   | CNC |
| Fr. | 07.Nov 2025 | 8h23' 6.8"  | +20°13'17.8" | 1.445 aE | 0.878 aE | 14.4  | 21:49 | 13:27 | 05:28 | +60° | S   | CNC |
| Sa. | 08.Nov 2025 | 8h27' 0.2"  | +20°14'13.0" | 1.438 aE | 0.867 aE | 14.4  | 21:49 | 13:27 | 05:30 | +60° | S   | CNC |
| So. | 09.Nov 2025 | 8h30'56.3"  | +20°15' 1.0" | 1.431 aE | 0.856 aE | 14.3  | 21:49 | 13:27 | 05:31 | +60° | S   | CNC |
| Mo. | 10.Nov 2025 | 8h34'55.0"  | +20°15'41.5" | 1.424 aE | 0.845 aE | 14.2  | 21:49 | 13:27 | 05:33 | +60° | S   | CNC |
| Di. | 11.Nov 2025 | 8h38'56.5"  | +20°16'14.0" | 1.417 aE | 0.835 aE | 14.2  | 21:49 | 13:27 | 05:34 | +60° | S   | CNC |
| Mi. | 12.Nov 2025 | 8h43' 0.7"  | +20°16'38.2" | 1.411 aE | 0.825 aE | 14.1  | 21:49 | 13:27 | 05:35 | +60° | S   | CNC |
| Do. | 13.Nov 2025 | 8h47' 7.7"  | +20°16'53.8" | 1.404 aE | 0.815 aE | 14.1  | 21:50 | 13:27 | 05:37 | +60° | S   | CNC |
| Fr. | 14.Nov 2025 | 8h51'17.3"  | +20°17' 0.4" | 1.397 aE | 0.805 aE | 14.0  | 21:50 | 13:28 | 05:38 | +60° | S   | CNC |
| Sa. | 15.Nov 2025 | 8h55'29.7"  | +20°16'57.5" | 1.391 aE | 0.795 aE | 13.9  | 21:50 | 13:28 | 05:38 | +60° | S   | CNC |
| So. | 16.Nov 2025 | 8h59'44.8"  | +20°16'44.8" | 1.384 aE | 0.786 aE | 13.9  | 21:51 | 13:28 | 05:39 | +60° | S   | CNC |
| Mo. | 17.Nov 2025 | 9h 4' 2.7"  | +20°16'21.7" | 1.378 aE | 0.776 aE | 13.8  | 21:51 | 13:29 | 05:39 | +60° | S   | CNC |
| Di. | 18.Nov 2025 | 9h 8'23.2"  | +20°15'47.9" | 1.371 aE | 0.767 aE | 13.8  | 21:51 | 13:29 | 05:39 | +60° | S   | CNC |
| Mi. | 19.Nov 2025 | 9h12'46.5"  | +20°15' 3.0" | 1.365 aE | 0.758 aE | 13.7  | 21:52 | 13:29 | 05:40 | +60° | S   | CNC |
| Do. | 20.Nov 2025 | 9h17'12.4"  | +20°14' 6.3" | 1.359 aE | 0.750 aE | 13.6  | 21:53 | 13:30 | 05:40 | +60° | S   | CNC |
| Fr. | 21.Nov 2025 | 9h21'40.9"  | +20°12'57.5" | 1.352 aE | 0.741 aE | 13.6  | 21:53 | 13:30 | 05:41 | +60° | S   | CNC |
| Sa. | 22.Nov 2025 | 9h26'12.1"  | +20°11'36.0" | 1.346 aE | 0.733 aE | 13.5  | 21:54 | 13:31 | 05:42 | +60° | S   | LEO |
| So. | 23.Nov 2025 | 9h30'45.8"  | +20°10' 1.5" | 1.340 aE | 0.725 aE | 13.5  | 21:55 | 13:31 | 05:42 | +60° | S   | LEO |
| Mo. | 24.Nov 2025 | 9h35'22.1"  | +20° 8'13.2" | 1.334 aE | 0.717 aE | 13.4  | 21:56 | 13:32 | 05:43 | +60° | S   | LEO |
| Di. | 25.Nov 2025 | 9h40' 0.8"  | +20° 6'10.8" | 1.329 aE | 0.709 aE | 13.4  | 21:57 | 13:32 | 05:44 | +60° | S   | LEO |
| Mi. | 26.Nov 2025 | 9h44'42.0"  | +20° 3'53.8" | 1.323 aE | 0.702 aE | 13.3  | 21:58 | 13:33 | 05:44 | +60° | S   | LEO |
| Do. | 27.Nov 2025 | 9h49'25.5"  | +20° 1'21.6" | 1.317 aE | 0.694 aE | 13.2  | 21:59 | 13:33 | 05:45 | +60° | S   | LEO |
| Fr. | 28.Nov 2025 | 9h54'11.2"  | +19°58'33.8" | 1.312 aE | 0.687 aE | 13.2  | 22:00 | 13:34 | 05:46 | +60° | S   | LEO |
| Sa. | 29.Nov 2025 | 9h58'59.2"  | +19°55'29.8" | 1.306 aE | 0.680 aE | 13.1  | 22:01 | 13:34 | 05:47 | +60° | S   | LEO |
| So. | 30.Nov 2025 | 10h 3'49.2" | +19°52' 9.3" | 1.301 aE | 0.674 aE | 13.1  | 22:03 | 13:35 | 05:48 | +60° | S   | LEO |
| Mo. | 01.Dez 2025 | 10h 8'41.3" | +19°48'31.7" | 1.295 aE | 0.667 aE | 13.0  | 22:04 | 13:35 | 05:49 | +60° | S   | LEO |
| Di. | 02.Dez 2025 | 10h13'35.2" | +19°44'36.7" | 1.290 aE | 0.661 aE | 13.0  | 22:05 | 13:36 | 05:50 | +60° | S   | LEO |
| Mi. | 03.Dez 2025 | 10h18'31.0" | +19°40'23.9" | 1.285 aE | 0.655 aE | 12.9  | 22:07 | 13:36 | 05:51 | +60° | S   | LEO |
| Do. | 04.Dez 2025 | 10h23'28.4" | +19°35'53.1" | 1.280 aE | 0.649 aE | 12.9  | 22:08 | 13:37 | 05:52 | +60° | S   | LEO |
| Fr. | 05.Dez 2025 | 10h28'27.4" | +19°31' 3.9" | 1.275 aE | 0.644 aE | 12.8  | 22:10 | 13:38 | 05:53 | +59° | S   | LEO |
| Sa. | 06.Dez 2025 | 10h33'27.8" | +19°25'56.2" | 1.270 aE | 0.638 aE | 12.8  | 22:12 | 13:38 | 05:54 | +59° | S   | LEO |
| So. | 07.Dez 2025 | 10h38'29.4" | +19°20'29.8" | 1.266 aE | 0.633 aE | 12.7  | 22:13 | 13:39 | 05:55 | +59° | S   | LEO |
| Mo. | 08.Dez 2025 | 10h43'32.1" | +19°14'44.7" | 1.261 aE | 0.628 aE | 12.7  | 22:15 | 13:39 | 05:56 | +59° | S   | LEO |
| Di. | 09.Dez 2025 | 10h48'35.8" | +19° 8'41.0" | 1.257 aE | 0.623 aE | 12.7  | 22:17 | 13:40 | 05:57 | +59° | S   | LEO |
| Mi. | 10.Dez 2025 | 10h53'40.2" | +19° 2'18.5" | 1.252 aE | 0.619 aE | 12.6  | 22:19 | 13:40 | 05:58 | +59° | S   | LEO |
| Do. | 11.Dez 2025 | 10h58'45.2" | +18°55'37.6" | 1.248 aE | 0.614 aE | 12.6  | 22:20 | 13:41 | 05:59 | +59° | S   | LEO |
| Fr. | 12.Dez 2025 | 11h 3'50.6" | +18°48'38.2" | 1.244 aE | 0.610 aE | 12.5  | 22:22 | 13:41 | 06:00 | +59° | S   | LEO |
| Sa. | 13.Dez 2025 | 11h 8'56.2" | +18°41'20.8" | 1.240 aE | 0.606 aE | 12.5  | 22:24 | 13:42 | 06:02 | +59° | S   | LEO |
| So. | 14.Dez 2025 | 11h14' 1.9" | +18°33'45.6" | 1.236 aE | 0.603 aE | 12.5  | 22:26 | 13:42 | 06:03 | +59° | S   | LEO |
| Mo. | 15.Dez 2025 | 11h19' 7.4" | +18°25'52.9" | 1.232 aE | 0.599 aE | 12.4  | 22:28 | 13:42 | 06:04 | +58° | S   | LEO |
| Di. | 16.Dez 2025 | 11h24'12.6" | +18°17'43.1" | 1.229 aE | 0.596 aE | 12.4  | 22:30 | 13:43 | 06:05 | +58° | S   | LEO |
| Mi. | 17.Dez 2025 | 11h29'17.3" | +18° 9'16.6" | 1.225 aE | 0.593 aE | 12.4  | 22:32 | 13:43 | 06:06 | +58° | S   | LEO |
| Do. | 18.Dez 2025 | 11h34'21.2" | +18° 0'34.0" | 1.222 aE | 0.590 aE | 12.3  | 22:34 | 13:43 | 06:07 | +58° | S   | LEO |
| Fr. | 19.Dez 2025 | 11h39'24.3" | +17°51'35.8" | 1.219 aE | 0.587 aE | 12.3  | 22:36 | 13:43 | 06:08 | +58° | S   | LEO |
| Sa. | 20.Dez 2025 | 11h44'26.3" | +17°42'22.6" | 1.216 aE | 0.585 aE | 12.3  | 22:38 | 13:44 | 06:09 | +58° | S   | LEO |
| So. | 21.Dez 2025 | 11h49'26.9" | +17°32'55.0" | 1.213 aE | 0.582 aE | 12.2  | 22:40 | 13:44 | 06:11 | +58° | S   | LEO |
| Mo. | 22.Dez 2025 | 11h54'26.2" | +17°23'13.6" | 1.210 aE | 0.580 aE | 12.2  | 22:42 | 13:44 | 06:12 | +57° | S   | LEO |
| Di. | 23.Dez 2025 | 11h59'23.8" | +17°13'19.3" | 1.207 aE | 0.578 aE | 12.2  | 22:44 | 13:44 | 06:13 | +57° | S   | COM |
| Mi. | 24.Dez 2025 | 12h 4'19.6" | +17° 3'12.5" | 1.205 aE | 0.576 aE | 12.2  | 22:46 | 13:44 | 06:14 | +57° | S   | COM |
| Do. | 25.Dez 2025 | 12h 9'13.5" | +16°52'54.2" | 1.202 aE | 0.574 aE | 12.2  | 22:48 | 13:44 | 06:14 | +57° | S   | COM |
| Fr. | 26.Dez 2025 | 12h14' 5.3" | +16°42'25.1" | 1.200 aE | 0.573 aE | 12.1  | 22:50 | 13:44 | 06:15 | +57° | S   | COM |
| Sa. | 27.Dez 2025 | 12h18'54.8" | +16°31'46.0" | 1.198 aE | 0.572 aE | 12.1  | 22:51 | 13:44 | 06:16 | +56° | S   | COM |
| So. | 28.Dez 2025 | 12h23'41.8" | +16°20'57.6" | 1.196 aE | 0.570 aE | 12.1  | 22:53 | 13:43 | 06:17 | +56° | S   | COM |
| Mo. | 29.Dez 2025 | 12h28'26.4" | +16°10' 0.9" | 1.194 aE | 0.569 aE | 12.1  | 22:55 | 13:43 | 06:18 | +56° | S   | COM |



# Der Komet 24P/Schaumasse im Jahre 2017

## berechnet für den Standort Mitteldeutschland

### Ephemeride des Kometen 24P/Schaumasse

|     | Datum       | Rektaszens. | Deklination  | r        | Delta    | Hell. | Aufg. | Untg. | T <sub>Opt.</sub> | Höhe | Ri. | Stb |
|-----|-------------|-------------|--------------|----------|----------|-------|-------|-------|-------------------|------|-----|-----|
| Di. | 30.Dez 2025 | 12h33' 8.2" | +15°58'56.6" | 1.192 aE | 0.568 aE | 12.1  | 22:57 | 13:43 | 06:19             | +56° | S   | COM |
| Mi. | 31.Dez 2025 | 12h37'47.3" | +15°47'45.6" | 1.191 aE | 0.568 aE | 12.1  | 22:58 | 13:42 | 06:19             | +56° | S   | COM |
| Do. | 01.Jan 2026 | 12h42'23.4" | +15°36'28.9" | 1.189 aE | 0.567 aE | 12.0  | 23:00 | 13:42 | 06:19             | +56° | S   | COM |
| Fr. | 02.Jan 2026 | 12h46'56.5" | +15°25' 7.3" | 1.188 aE | 0.567 aE | 12.0  | 23:02 | 13:42 | 06:19             | +55° | S   | COM |
| Sa. | 03.Jan 2026 | 12h51'26.5" | +15°13'41.8" | 1.187 aE | 0.566 aE | 12.0  | 23:03 | 13:41 | 06:19             | +55° | S   | COM |
| So. | 04.Jan 2026 | 12h55'53.2" | +15° 2'13.4" | 1.186 aE | 0.566 aE | 12.0  | 23:05 | 13:41 | 06:19             | +55° | S   | COM |
| Mo. | 05.Jan 2026 | 13h 0'16.7" | +14°50'42.9" | 1.185 aE | 0.566 aE | 12.0  | 23:06 | 13:40 | 06:19             | +55° | S   | COM |
| Di. | 06.Jan 2026 | 13h 4'36.7" | +14°39'11.3" | 1.184 aE | 0.566 aE | 12.0  | 23:08 | 13:39 | 06:19             | +55° | S   | COM |
| Mi. | 07.Jan 2026 | 13h 8'53.2" | +14°27'39.5" | 1.184 aE | 0.566 aE | 12.0  | 23:09 | 13:38 | 06:19             | +54° | S   | COM |
| Do. | 08.Jan 2026 | 13h13' 6.1" | +14°16' 8.5" | 1.183 aE | 0.566 aE | 12.0  | 23:10 | 13:38 | 06:19             | +54° | S   | VIR |
| Fr. | 09.Jan 2026 | 13h17'15.4" | +14° 4'39.2" | 1.183 aE | 0.567 aE | 12.0  | 23:11 | 13:37 | 06:18             | +54° | S   | VIR |
| Sa. | 10.Jan 2026 | 13h21'20.9" | +13°53'12.3" | 1.183 aE | 0.567 aE | 12.0  | 23:12 | 13:36 | 06:18             | +54° | S   | VIR |
| So. | 11.Jan 2026 | 13h25'22.7" | +13°41'48.6" | 1.183 aE | 0.567 aE | 12.0  | 23:13 | 13:35 | 06:18             | +54° | S   | VIR |
| Mo. | 12.Jan 2026 | 13h29'20.7" | +13°30'29.1" | 1.183 aE | 0.568 aE | 12.0  | 23:14 | 13:34 | 06:18             | +53° | S   | VIR |
| Di. | 13.Jan 2026 | 13h33'14.8" | +13°19'14.3" | 1.184 aE | 0.569 aE | 12.0  | 23:15 | 13:33 | 06:17             | +53° | S   | VIR |
| Mi. | 14.Jan 2026 | 13h37' 4.9" | +13° 8' 4.9" | 1.184 aE | 0.569 aE | 12.0  | 23:16 | 13:32 | 06:17             | +53° | S   | BOO |
| Do. | 15.Jan 2026 | 13h40'51.1" | +12°57' 1.6" | 1.185 aE | 0.570 aE | 12.0  | 23:17 | 13:31 | 06:16             | +53° | S   | BOO |
| Fr. | 16.Jan 2026 | 13h44'33.3" | +12°46' 5.0" | 1.186 aE | 0.571 aE | 12.0  | 23:17 | 13:29 | 06:16             | +53° | S   | BOO |
| Sa. | 17.Jan 2026 | 13h48'11.5" | +12°35'15.6" | 1.187 aE | 0.572 aE | 12.0  | 23:18 | 13:28 | 06:15             | +53° | S   | BOO |
| So. | 18.Jan 2026 | 13h51'45.7" | +12°24'33.9" | 1.188 aE | 0.573 aE | 12.1  | 23:18 | 13:27 | 06:14             | +52° | S   | BOO |
| Mo. | 19.Jan 2026 | 13h55'15.8" | +12°14' 0.3" | 1.189 aE | 0.574 aE | 12.1  | 23:19 | 13:25 | 06:14             | +52° | S   | BOO |
| Di. | 20.Jan 2026 | 13h58'41.8" | +12° 3'35.4" | 1.190 aE | 0.575 aE | 12.1  | 23:19 | 13:24 | 06:13             | +52° | S   | BOO |
| Mi. | 21.Jan 2026 | 14h 2' 3.8" | +11°53'19.4" | 1.192 aE | 0.576 aE | 12.1  | 23:19 | 13:22 | 06:12             | +52° | S   | BOO |
| Do. | 22.Jan 2026 | 14h 5'21.6" | +11°43'12.7" | 1.194 aE | 0.577 aE | 12.1  | 23:20 | 13:21 | 06:12             | +52° | S   | BOO |
| Fr. | 23.Jan 2026 | 14h 8'35.4" | +11°33'15.4" | 1.195 aE | 0.578 aE | 12.1  | 23:20 | 13:19 | 06:11             | +51° | S   | BOO |
| Sa. | 24.Jan 2026 | 14h11'45.0" | +11°23'28.0" | 1.197 aE | 0.579 aE | 12.1  | 23:20 | 13:18 | 06:10             | +51° | S   | BOO |
| So. | 25.Jan 2026 | 14h14'50.6" | +11°13'50.6" | 1.199 aE | 0.580 aE | 12.2  | 23:19 | 13:16 | 06:09             | +51° | S   | BOO |
| Mo. | 26.Jan 2026 | 14h17'52.1" | +11° 4'23.3" | 1.202 aE | 0.581 aE | 12.2  | 23:19 | 13:14 | 06:08             | +51° | S   | BOO |
| Di. | 27.Jan 2026 | 14h20'49.6" | +10°55' 6.3" | 1.204 aE | 0.583 aE | 12.2  | 23:19 | 13:12 | 06:07             | +51° | S   | BOO |
| Mi. | 28.Jan 2026 | 14h23'42.9" | +10°45'59.9" | 1.207 aE | 0.584 aE | 12.2  | 23:19 | 13:11 | 06:06             | +51° | S   | BOO |
| Do. | 29.Jan 2026 | 14h26'32.3" | +10°37' 4.1" | 1.209 aE | 0.585 aE | 12.2  | 23:18 | 13:09 | 06:05             | +51° | S   | BOO |
| Fr. | 30.Jan 2026 | 14h29'17.6" | +10°28'19.0" | 1.212 aE | 0.586 aE | 12.3  | 23:18 | 13:07 | 06:04             | +50° | S   | BOO |
| Sa. | 31.Jan 2026 | 14h31'58.9" | +10°19'44.9" | 1.215 aE | 0.588 aE | 12.3  | 23:17 | 13:05 | 06:03             | +50° | S   | BOO |
| So. | 01.Feb 2026 | 14h34'36.1" | +10°11'21.8" | 1.218 aE | 0.589 aE | 12.3  | 23:16 | 13:03 | 06:02             | +50° | S   | BOO |
| Mo. | 02.Feb 2026 | 14h37' 9.4" | +10° 3' 9.9" | 1.221 aE | 0.590 aE | 12.3  | 23:16 | 13:01 | 06:00             | +50° | S   | BOO |
| Di. | 03.Feb 2026 | 14h39'38.7" | + 9°55' 9.2" | 1.225 aE | 0.591 aE | 12.4  | 23:15 | 12:58 | 05:59             | +50° | S   | BOO |
| Mi. | 04.Feb 2026 | 14h42' 4.0" | + 9°47'20.0" | 1.228 aE | 0.593 aE | 12.4  | 23:14 | 12:56 | 05:58             | +50° | S   | BOO |
| Do. | 05.Feb 2026 | 14h44'25.3" | + 9°39'42.2" | 1.232 aE | 0.594 aE | 12.4  | 23:13 | 12:54 | 05:57             | +50° | S   | BOO |
| Fr. | 06.Feb 2026 | 14h46'42.6" | + 9°32'15.8" | 1.235 aE | 0.595 aE | 12.4  | 23:12 | 12:52 | 05:55             | +49° | S   | BOO |
| Sa. | 07.Feb 2026 | 14h48'56.0" | + 9°25' 1.0" | 1.239 aE | 0.596 aE | 12.5  | 23:10 | 12:49 | 05:54             | +49° | S   | BOO |
| So. | 08.Feb 2026 | 14h51' 5.4" | + 9°17'57.7" | 1.243 aE | 0.598 aE | 12.5  | 23:09 | 12:47 | 05:52             | +49° | S   | BOO |
| Mo. | 09.Feb 2026 | 14h53'10.8" | + 9°11' 5.9" | 1.247 aE | 0.599 aE | 12.5  | 23:08 | 12:44 | 05:51             | +49° | S   | BOO |
| Di. | 10.Feb 2026 | 14h55'12.2" | + 9° 4'25.4" | 1.251 aE | 0.600 aE | 12.5  | 23:06 | 12:42 | 05:50             | +49° | S   | BOO |
| Mi. | 11.Feb 2026 | 14h57' 9.6" | + 8°57'56.2" | 1.256 aE | 0.601 aE | 12.6  | 23:05 | 12:39 | 05:48             | +49° | S   | BOO |
| Do. | 12.Feb 2026 | 14h59' 3.0" | + 8°51'38.2" | 1.260 aE | 0.602 aE | 12.6  | 23:03 | 12:37 | 05:47             | +49° | S   | BOO |
| Fr. | 13.Feb 2026 | 15h 0'52.5" | + 8°45'31.2" | 1.265 aE | 0.604 aE | 12.6  | 23:02 | 12:34 | 05:45             | +49° | S   | BOO |
| Sa. | 14.Feb 2026 | 15h 2'37.9" | + 8°39'35.0" | 1.269 aE | 0.605 aE | 12.7  | 23:00 | 12:31 | 05:43             | +49° | S   | BOO |
| So. | 15.Feb 2026 | 15h 4'19.4" | + 8°33'49.5" | 1.274 aE | 0.606 aE | 12.7  | 22:58 | 12:29 | 05:42             | +49° | S   | BOO |
| Mo. | 16.Feb 2026 | 15h 5'56.9" | + 8°28'14.3" | 1.279 aE | 0.607 aE | 12.7  | 22:56 | 12:26 | 05:40             | +48° | S   | BOO |
| Di. | 17.Feb 2026 | 15h 7'30.4" | + 8°22'49.2" | 1.284 aE | 0.608 aE | 12.8  | 22:54 | 12:23 | 05:38             | +48° | S   | BOO |
| Mi. | 18.Feb 2026 | 15h 8'59.9" | + 8°17'34.0" | 1.289 aE | 0.609 aE | 12.8  | 22:52 | 12:20 | 05:37             | +48° | S   | BOO |
| Do. | 19.Feb 2026 | 15h10'25.4" | + 8°12'28.2" | 1.294 aE | 0.610 aE | 12.8  | 22:50 | 12:17 | 05:34             | +48° | S   | BOO |
| Fr. | 20.Feb 2026 | 15h11'47.0" | + 8° 7'31.6" | 1.300 aE | 0.611 aE | 12.9  | 22:48 | 12:14 | 05:32             | +48° | S   | SER |
| Sa. | 21.Feb 2026 | 15h13' 4.5" | + 8° 2'43.9" | 1.305 aE | 0.612 aE | 12.9  | 22:45 | 12:11 | 05:29             | +48° | S   | SER |
| So. | 22.Feb 2026 | 15h14'18.1" | + 7°58' 4.6" | 1.310 aE | 0.613 aE | 12.9  | 22:43 | 12:08 | 05:26             | +48° | S   | SER |
| Mo. | 23.Feb 2026 | 15h15'27.8" | + 7°53'33.3" | 1.316 aE | 0.614 aE | 13.0  | 22:40 | 12:05 | 05:23             | +48° | S   | SER |
| Di. | 24.Feb 2026 | 15h16'33.4" | + 7°49' 9.8" | 1.322 aE | 0.615 aE | 13.0  | 22:38 | 12:02 | 05:20             | +48° | S   | SER |
| Mi. | 25.Feb 2026 | 15h17'35.2" | + 7°44'53.5" | 1.327 aE | 0.616 aE | 13.0  | 22:35 | 11:58 | 05:18             | +48° | S   | SER |
| Do. | 26.Feb 2026 | 15h18'33.0" | + 7°40'44.2" | 1.333 aE | 0.617 aE | 13.1  | 22:32 | 11:55 | 05:15             | +48° | S   | SER |
| Fr. | 27.Feb 2026 | 15h19'26.9" | + 7°36'41.6" | 1.339 aE | 0.618 aE | 13.1  | 22:30 | 11:52 | 05:12             | +48° | S   | SER |
| Sa. | 28.Feb 2026 | 15h20'16.9" | + 7°32'45.1" | 1.345 aE | 0.619 aE | 13.1  | 22:27 | 11:48 | 05:08             | +48° | S   | SER |
| So. | 01.Mrz 2026 | 15h21' 3.0" | + 7°28'54.6" | 1.351 aE | 0.620 aE | 13.2  | 22:24 | 11:45 | 05:05             | +47° | S   | SER |
| Mo. | 02.Mrz 2026 | 15h21'45.2" | + 7°25' 9.7" | 1.357 aE | 0.621 aE | 13.2  | 22:21 | 11:41 | 05:02             | +47° | S   | SER |
| Di. | 03.Mrz 2026 | 15h22'23.5" | + 7°21'30.0" | 1.364 aE | 0.622 aE | 13.3  | 22:18 | 11:37 | 04:59             | +47° | S   | SER |
| Mi. | 04.Mrz 2026 | 15h22'57.9" | + 7°17'55.2" | 1.370 aE | 0.623 aE | 13.3  | 22:15 | 11:34 | 04:55             | +47° | S   | SER |
| Do. | 05.Mrz 2026 | 15h23'28.5" | + 7°14'24.9" | 1.376 aE | 0.624 aE | 13.3  | 22:11 | 11:30 | 04:52             | +47° | S   | SER |
| Fr. | 06.Mrz 2026 | 15h23'55.3" | + 7°10'58.8" | 1.383 aE | 0.625 aE | 13.4  | 22:08 | 11:26 | 04:48             | +47° | S   | SER |
| Sa. | 07.Mrz 2026 | 15h24'18.1" | + 7° 7'36.5" | 1.389 aE | 0.626 aE | 13.4  | 22:05 | 11:22 | 04:45             | +47° | S   | SER |
| So. | 08.Mrz 2026 | 15h24'37.2" | + 7° 4'17.5" | 1.396 aE | 0.627 aE | 13.4  | 22:01 | 11:18 | 04:41             | +47° | S   | SER |
| Mo. | 09.Mrz 2026 | 15h24'52.4" | + 7° 1' 1.4" | 1.403 aE | 0.628 aE | 13.5  | 21:58 | 11:14 | 04:37             | +47° | S   | SER |
| Di. | 10.Mrz 2026 | 15h25' 3.8" | + 6°57'47.9" | 1.409 aE | 0.629 aE | 13.5  | 21:54 | 11:10 | 04:34             | +47° | S   | SER |
| Mi. | 11.Mrz 2026 | 15h25'11.4" | + 6°54'36.3" | 1.416 aE | 0.630 aE | 13.6  | 21:51 | 11:06 | 04:30             | +47° | S   | SER |
| Do. | 12.Mrz 2026 | 15h25'15.2" | + 6°51'26.4" | 1.423 aE | 0.631 aE | 13.6  | 21:47 | 11:02 | 04:26             | +47° | S   | SER |
| Fr. | 13.Mrz 2026 | 15h25'15.2" | + 6°48'17.4" | 1.430 aE | 0.633 aE | 13.6  | 21:43 | 10:58 | 04:22             | +47° | S   | SER |
| Sa. | 14.Mrz 2026 | 15h25'11.6" | + 6°45' 9.0" | 1.437 aE | 0.634 aE | 13.7  | 21:40 | 10:54 | 04:18             | +47° | S   | SER |
| So. | 15.Mrz 2026 | 15h25' 4.2" | + 6°42' 0.6" | 1.444 aE | 0.635 aE | 13.7  | 21:36 | 10:49 | 04:14             | +47° | S   | SER |
| Mo. | 16.Mrz 2026 | 15h24'53.1" | + 6°38'51.7" | 1.451 aE | 0.636 aE | 13.8  | 21:32 | 10:45 | 04:10             | +47° | S   | SER |

# Der Komet 24P/Schaumasse im Jahre 2017

## berechnet für den Standort Mitteldeutschland

### Ephemeride des Kometen 24P/Schaumasse

|     | Datum       | Rektaszens. | Deklination  | r        | Delta    | Hell. | Aufg. | Untg. | TOpt. | Höhe | Ri. | Stb |
|-----|-------------|-------------|--------------|----------|----------|-------|-------|-------|-------|------|-----|-----|
| Di. | 17.Mrz 2026 | 15h24'38.5" | + 6°35'41.7" | 1.458 aE | 0.638 aE | 13.8  | 21:28 | 10:40 | 04:06 | +47° | S   | SER |
| Mi. | 18.Mrz 2026 | 15h24'20.2" | + 6°32'30.0" | 1.465 aE | 0.639 aE | 13.8  | 21:24 | 10:36 | 04:01 | +47° | S   | SER |
| Do. | 19.Mrz 2026 | 15h23'58.5" | + 6°29'16.1" | 1.473 aE | 0.641 aE | 13.9  | 21:20 | 10:31 | 03:57 | +46° | S   | SER |
| Fr. | 20.Mrz 2026 | 15h23'33.2" | + 6°25'59.4" | 1.480 aE | 0.642 aE | 13.9  | 21:16 | 10:27 | 03:53 | +46° | S   | SER |
| Sa. | 21.Mrz 2026 | 15h23' 4.6" | + 6°22'39.4" | 1.487 aE | 0.644 aE | 14.0  | 21:12 | 10:22 | 03:48 | +46° | S   | SER |
| So. | 22.Mrz 2026 | 15h22'32.6" | + 6°19'15.4" | 1.495 aE | 0.645 aE | 14.0  | 21:07 | 10:17 | 03:44 | +46° | S   | SER |
| Mo. | 23.Mrz 2026 | 15h21'57.4" | + 6°15'46.9" | 1.502 aE | 0.647 aE | 14.1  | 21:03 | 10:12 | 03:39 | +46° | S   | SER |
| Di. | 24.Mrz 2026 | 15h21'19.0" | + 6°12'13.4" | 1.510 aE | 0.649 aE | 14.1  | 20:59 | 10:08 | 03:35 | +46° | S   | SER |
| Mi. | 25.Mrz 2026 | 15h20'37.6" | + 6° 8'34.5" | 1.517 aE | 0.651 aE | 14.1  | 20:54 | 10:03 | 03:30 | +46° | S   | SER |
| Do. | 26.Mrz 2026 | 15h19'53.1" | + 6° 4'49.5" | 1.525 aE | 0.653 aE | 14.2  | 20:50 | 09:58 | 03:26 | +46° | S   | SER |
| Fr. | 27.Mrz 2026 | 15h19' 5.7" | + 6° 0'58.2" | 1.533 aE | 0.655 aE | 14.2  | 20:45 | 09:53 | 03:21 | +46° | S   | SER |
| Sa. | 28.Mrz 2026 | 15h18'15.6" | + 5°57' 0.1" | 1.540 aE | 0.658 aE | 14.3  | 20:41 | 09:47 | 03:16 | +46° | S   | SER |
| So. | 29.Mrz 2026 | 15h17'25.0" | + 5°53' 5.0" | 1.548 aE | 0.660 aE | 14.3  | 21:37 | 10:42 | 04:11 | +46° | S   | SER |
| Mo. | 30.Mrz 2026 | 15h16'29.7" | + 5°48'52.5" | 1.555 aE | 0.662 aE | 14.4  | 21:32 | 10:37 | 04:06 | +46° | S   | SER |
| Di. | 31.Mrz 2026 | 15h15'31.8" | + 5°44'32.3" | 1.563 aE | 0.665 aE | 14.4  | 21:27 | 10:32 | 04:01 | +46° | S   | SER |
| Mi. | 01.Apr 2026 | 15h14'31.6" | + 5°40' 4.0" | 1.571 aE | 0.668 aE | 14.5  | 21:23 | 10:27 | 03:57 | +46° | S   | SER |
| Do. | 02.Apr 2026 | 15h13'29.1" | + 5°35'27.3" | 1.579 aE | 0.671 aE | 14.5  | 21:18 | 10:21 | 03:52 | +46° | S   | SER |
| Fr. | 03.Apr 2026 | 15h12'24.4" | + 5°30'42.0" | 1.587 aE | 0.674 aE | 14.6  | 21:14 | 10:16 | 03:47 | +45° | S   | SER |
| Sa. | 04.Apr 2026 | 15h11'17.6" | + 5°25'47.9" | 1.595 aE | 0.677 aE | 14.6  | 21:09 | 10:10 | 03:41 | +45° | S   | SER |
| So. | 05.Apr 2026 | 15h10' 9.0" | + 5°20'44.6" | 1.603 aE | 0.680 aE | 14.6  | 21:04 | 10:05 | 03:36 | +45° | S   | VIR |
| Mo. | 06.Apr 2026 | 15h 8'58.5" | + 5°15'32.1" | 1.611 aE | 0.684 aE | 14.7  | 21:00 | 09:59 | 03:31 | +45° | S   | VIR |
| Di. | 07.Apr 2026 | 15h 7'46.3" | + 5°10'10.0" | 1.619 aE | 0.687 aE | 14.7  | 20:55 | 09:54 | 03:26 | +45° | S   | VIR |
| Mi. | 08.Apr 2026 | 15h 6'32.6" | + 5° 4'38.3" | 1.627 aE | 0.691 aE | 14.8  | 20:50 | 09:48 | 03:21 | +45° | S   | VIR |
| Do. | 09.Apr 2026 | 15h 5'17.4" | + 4°58'56.8" | 1.635 aE | 0.695 aE | 14.8  | 20:45 | 09:42 | 03:16 | +45° | S   | VIR |
| Fr. | 10.Apr 2026 | 15h 4' 0.9" | + 4°53' 5.3" | 1.643 aE | 0.699 aE | 14.9  | 20:41 | 09:37 | 03:11 | +45° | S   | VIR |
| Sa. | 11.Apr 2026 | 15h 2'43.3" | + 4°47' 3.7" | 1.651 aE | 0.703 aE | 14.9  | 20:36 | 09:31 | 03:05 | +45° | S   | VIR |
| So. | 12.Apr 2026 | 15h 1'24.7" | + 4°40'52.0" | 1.659 aE | 0.708 aE | 15.0  | 20:31 | 09:25 | 03:00 | +45° | S   | VIR |
| Mo. | 13.Apr 2026 | 15h 0' 5.1" | + 4°34'30.0" | 1.667 aE | 0.712 aE | 15.0  | 20:26 | 09:20 | 02:55 | +45° | S   | VIR |
| Di. | 14.Apr 2026 | 14h58'44.8" | + 4°27'57.7" | 1.675 aE | 0.717 aE | 15.1  | 20:22 | 09:14 | 02:50 | +44° | S   | VIR |
| Mi. | 15.Apr 2026 | 14h57'23.9" | + 4°21'15.1" | 1.684 aE | 0.722 aE | 15.1  | 20:17 | 09:08 | 02:44 | +44° | S   | VIR |
| Do. | 16.Apr 2026 | 14h56' 2.6" | + 4°14'22.2" | 1.692 aE | 0.727 aE | 15.2  | 20:12 | 09:02 | 02:39 | +44° | S   | VIR |
| Fr. | 17.Apr 2026 | 14h54'40.9" | + 4° 7'19.0" | 1.700 aE | 0.733 aE | 15.2  | 20:08 | 08:56 | 02:34 | +44° | S   | VIR |
| Sa. | 18.Apr 2026 | 14h53'19.1" | + 4° 0' 5.5" | 1.708 aE | 0.738 aE | 15.3  | 20:03 | 08:50 | 02:29 | +44° | S   | VIR |
| So. | 19.Apr 2026 | 14h51'57.2" | + 3°52'41.9" | 1.717 aE | 0.744 aE | 15.3  | 19:58 | 08:44 | 02:23 | +44° | S   | VIR |
| Mo. | 20.Apr 2026 | 14h50'35.5" | + 3°45' 8.2" | 1.725 aE | 0.750 aE | 15.4  | 19:53 | 08:39 | 02:18 | +44° | S   | VIR |
| Di. | 21.Apr 2026 | 14h49'14.0" | + 3°37'24.6" | 1.733 aE | 0.756 aE | 15.5  | 19:49 | 08:33 | 02:13 | +44° | S   | VIR |
| Mi. | 22.Apr 2026 | 14h47'52.8" | + 3°29'31.3" | 1.742 aE | 0.763 aE | 15.5  | 19:44 | 08:27 | 02:07 | +43° | S   | VIR |
| Do. | 23.Apr 2026 | 14h46'32.2" | + 3°21'28.5" | 1.750 aE | 0.769 aE | 15.6  | 19:40 | 08:21 | 02:02 | +43° | S   | VIR |
| Fr. | 24.Apr 2026 | 14h45'12.2" | + 3°13'16.6" | 1.758 aE | 0.776 aE | 15.6  | 19:35 | 08:15 | 01:57 | +43° | S   | VIR |
| Sa. | 25.Apr 2026 | 14h43'53.0" | + 3° 4'55.7" | 1.767 aE | 0.783 aE | 15.7  | 19:30 | 08:09 | 01:52 | +43° | S   | VIR |
| So. | 26.Apr 2026 | 14h42'34.6" | + 2°56'26.2" | 1.775 aE | 0.791 aE | 15.7  | 19:26 | 08:03 | 01:46 | +43° | S   | VIR |
| Mo. | 27.Apr 2026 | 14h41'17.2" | + 2°47'48.5" | 1.783 aE | 0.798 aE | 15.8  | 19:21 | 07:57 | 01:41 | +43° | S   | VIR |
| Di. | 28.Apr 2026 | 14h40' 0.9" | + 2°39' 2.8" | 1.792 aE | 0.806 aE | 15.8  | 19:17 | 07:51 | 01:36 | +43° | S   | VIR |
| Mi. | 29.Apr 2026 | 14h38'45.7" | + 2°30' 9.6" | 1.800 aE | 0.814 aE | 15.9  | 19:12 | 07:46 | 01:31 | +42° | S   | VIR |
| Do. | 30.Apr 2026 | 14h37'31.7" | + 2°21' 9.2" | 1.809 aE | 0.822 aE | 15.9  | 19:08 | 07:40 | 01:26 | +42° | S   | VIR |