

Visible Ephemeris Cheat Sheet (Landscape Format)

Version 2.5.7-apogee — Dr. Robert W. McGwier, PhD

Runtime Flags

| Flag | Meaning | Default | Notes |
|----------------|----------------------------------|-----------------|---|
| --lat, --lon | Observer latitude & longitude | <i>required</i> | Decimal degrees |
| --elev | Elevation above sea level (m) | 0.0 | |
| --interval | Update delay (s) | 10 | Display refresh period |
| --min-el | Minimum elevation ($^{\circ}$) | 0 | Filter horizon clutter |
| --maxsat | Satellites shown per screen | 40 | Re-headers every page |
| --max-apogee | NEW: Max apogee (km) | 500 | Excludes high-orbit sats |
| --visible-only | Show visible (sunlit sats only) | Enabled | Disable via --no-visible-only |
| --twilight | Night definition | civil | Options: civil, nautical, astronomical, custom |
| --twilight-deg | Solar depression ($^{\circ}$) | derived | Required if custom |

Networking & Web

| Flag | Description | Example |
|--------------------|---------------------------------|----------------------|
| --udp ip:port | Send live JSON snapshot packets | --udp 127.0.0.1:6001 |
| --udp-snapshot | One JSON per refresh | — |
| --udp-snapshot-max | Limit satellites per UDP packet | 50 |
| --web host:port | Flask web dashboard | --web 0.0.0.0:8080 |

Access the dashboard: