



Visibility charts from European Southern Observatory, La Silla

1 Epochs

- CHART 1: 2017-11-20

2 Cuts applied to the selection

Quantity	Condition	Description	Units
Alt	> 30	Maximum altitude	deg
\widehat{SEO}	> 30	Solar elongation	deg
\widehat{MEO}	> 5	Lunar elongation	deg
m_V	n.a.	Apparent magnitude	mag
α	n.a.	Phase angle	deg
ϕ	n.a.	Apparent diameter	arcsec
\mathcal{D}	> 0	Minimum duration of visibility	min
Visibility computed between civil twilights.			

3 Meaning of displayed quantities

Quantity	Description	Units
Target	Target designation	–
m_V	Apparent magnitude	mag
ϕ	Apparent diameter	arcsec
\mathcal{D}	Duration of visibility window	h:m
Alt	Altitude	deg
Az.	Azimuth	deg
RA	Right Ascension	h:m:s
DEC	Declination	d:m:s
Rate	Apparent non-sidereal motion	arcsec/h
λ_G	Galactic longitude	deg
β_G	Galactic latitude	deg
r	Range to observer	au
Δ	Heliocentric distance	au
α	Solar phase angle	deg
$\widehat{\text{SEO}}$	Solar elongation	deg
$\widehat{\text{MEO}}$	Moon elongation	deg

For each target, the values are reported at the time of the highest altitude.

Credits

ViSiON (**V**isibility **S**ervice for **O**bserving **N**ights) has been developed by Benoît Carry and Jérôme Berthier at IMCCE.

If ViSiON was helpful for your research, please add the following in your acknowledgments: “This publication makes use of the Virtual Observatory Web service ViSiON, developed by IMCCE and OCA.”

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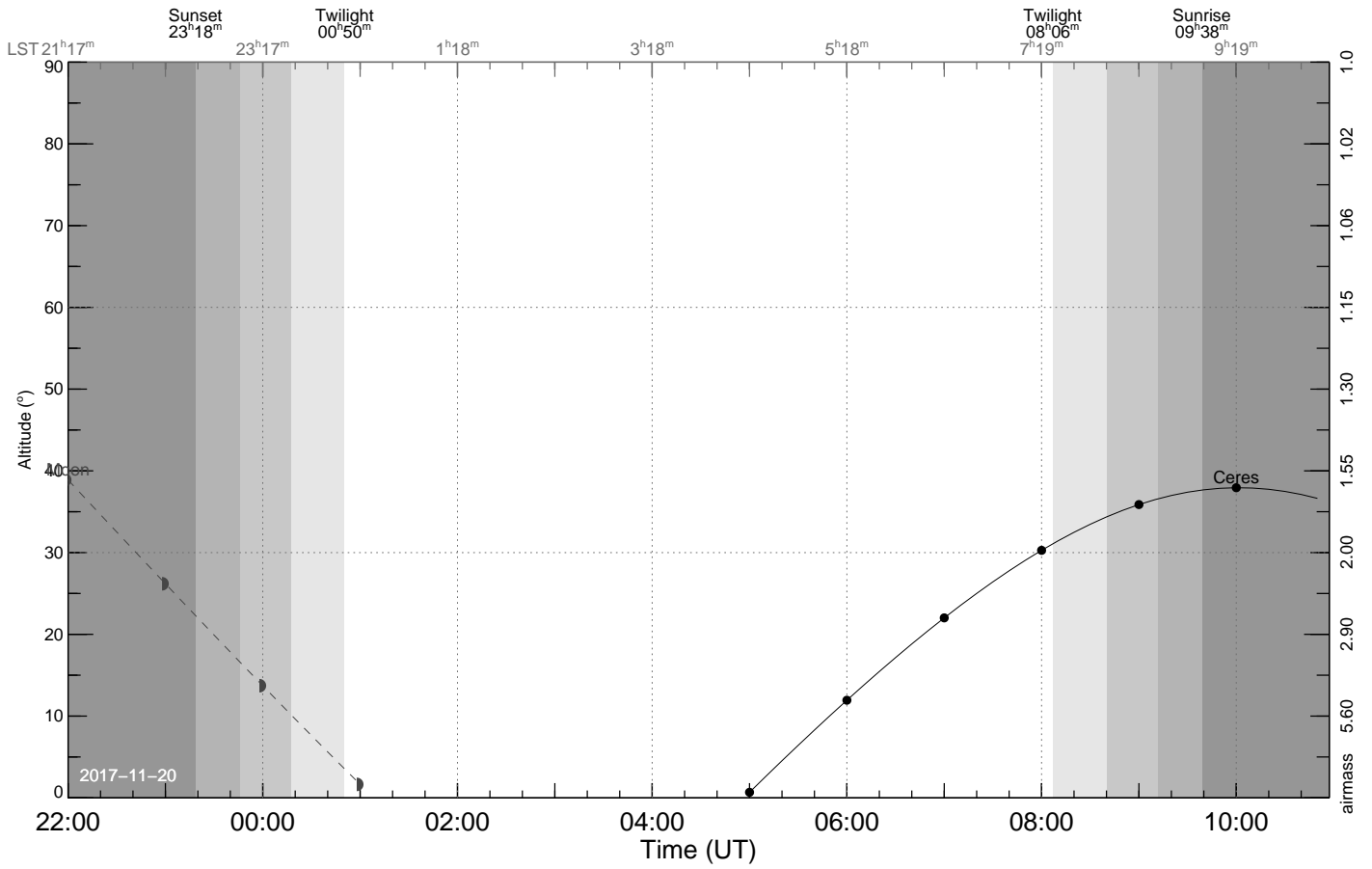
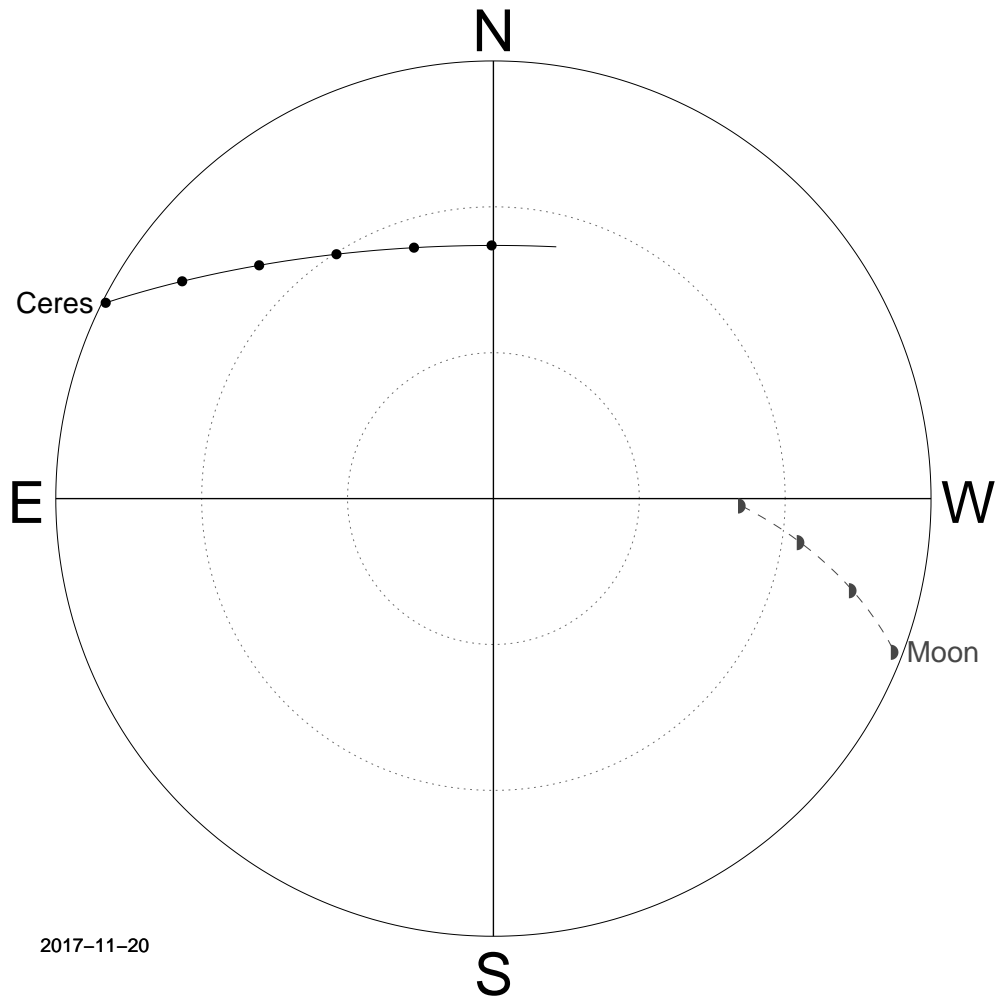


Figure 1: Airmass charts for epoch 2017-11-20









Target	m_V	ϕ	\mathcal{D}	Alt	Az.	RA	DEC	Rate	λ_G	β_G	r	Δ	α	\widehat{SEO}	\widehat{MEO}	Links
Moon	-5.71	1773	$9^h 30^m$	15	256	$17^h 40^m 13^s$	$-19^\circ 03' 8''$	1671	368	5	0.003	0.992	152.9	27.0	0.0	  
(1) Ceres	8.22	0.53	$1^h 20^m$	36	14	$9^h 21^m 58^s$	$22^\circ 48' 8''$	26	386	43	2.19	2.60	21.7	103.1	134.1	  

Table 1: Ephemerides summary for epoch 2017-11-20, values are reported at the time of the highest altitude.