



Visibility charts from European Southern Observatory, La Silla

1 Epochs

- CHART 1: 2018-10-18

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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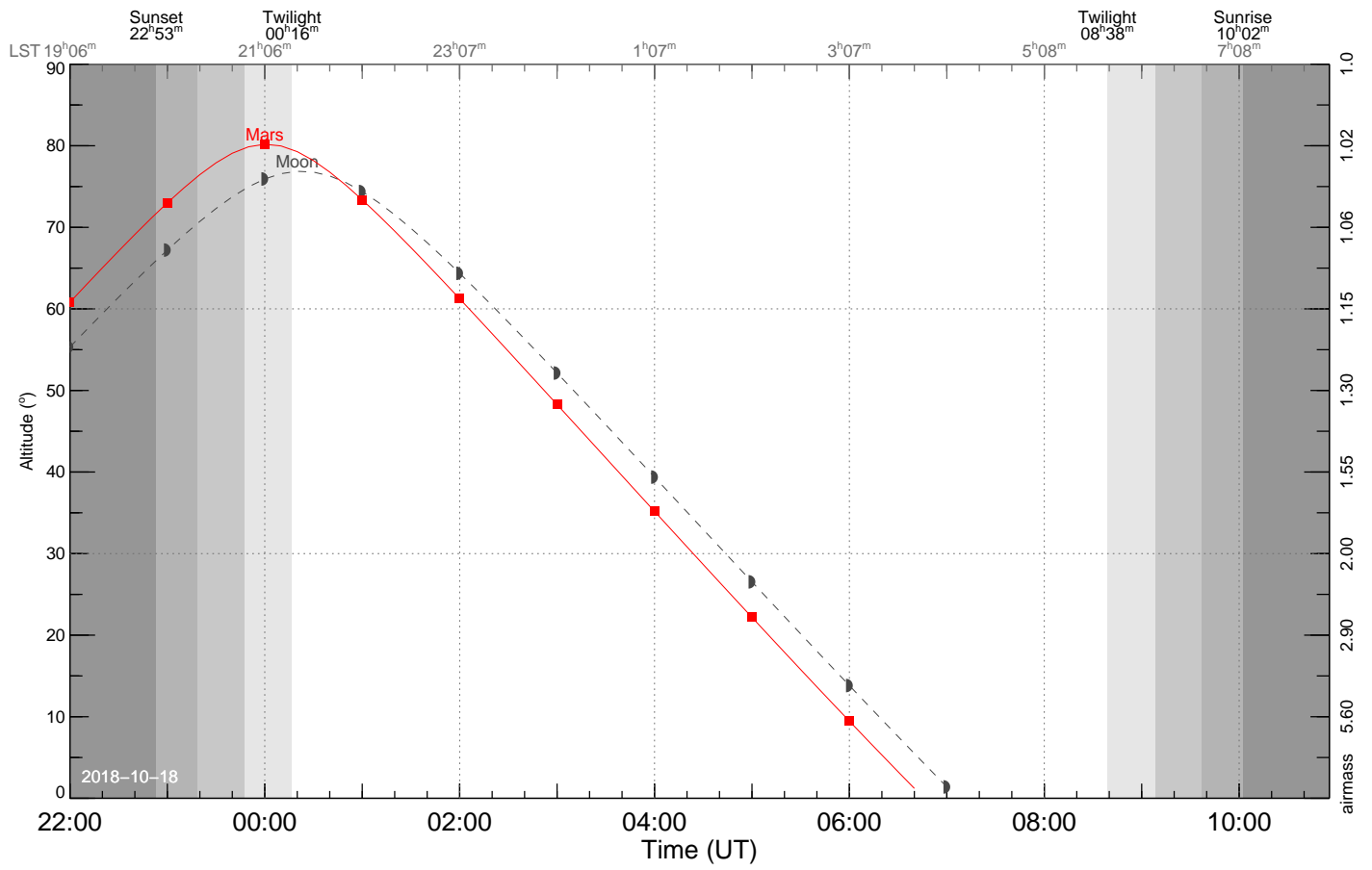
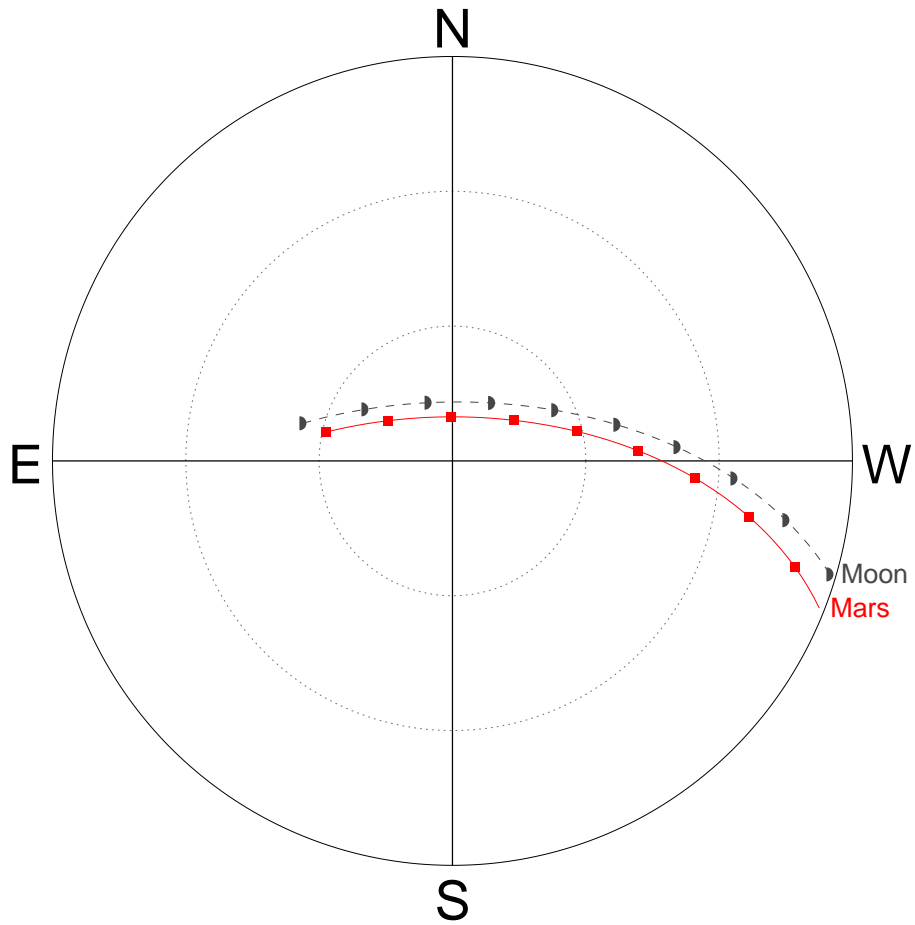


Figure 1: Airmass charts for epoch 2018-10-18





Target	m_V	ϕ	\mathcal{D}	Alt	Az.	RA	DEC	Rate	λ_G	β_G	r	Δ	α	\widehat{SEO}	\widehat{MEO}	Links
Moon	-10.52	1804	$10^h 19^m$	76	3	$21^h 30^m 55^s$	$-16^\circ 08' 51''$	1089	216	-42	0.003	0.997	65.3	114.6	0.0	iAce – 
Mars	-0.89	13.33	$5^h 09^m$	80	1	$21^h 08^m 56^s$	$-19^\circ 26' 54''$	74	389	-39	0.70	1.39	42.8	108.6	6.1	iAce – 

Table 1: Ephemerides summary for epoch 2018-10-18, values are reported at the time of the highest altitude.