



# Visibility charts from European Southern Observatory, La Silla

## 1 Epochs

- CHART 1: 2018-03-18

## 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
$\alpha$	n.a.	Phase angle	deg
$\phi$	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
$\phi$	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
$\lambda_G$	Galactic longitude	deg
$\beta_G$	Galactic latitude	deg
$r$	Range to observer	au
$\Delta$	Heliocentric distance	au
$\alpha$	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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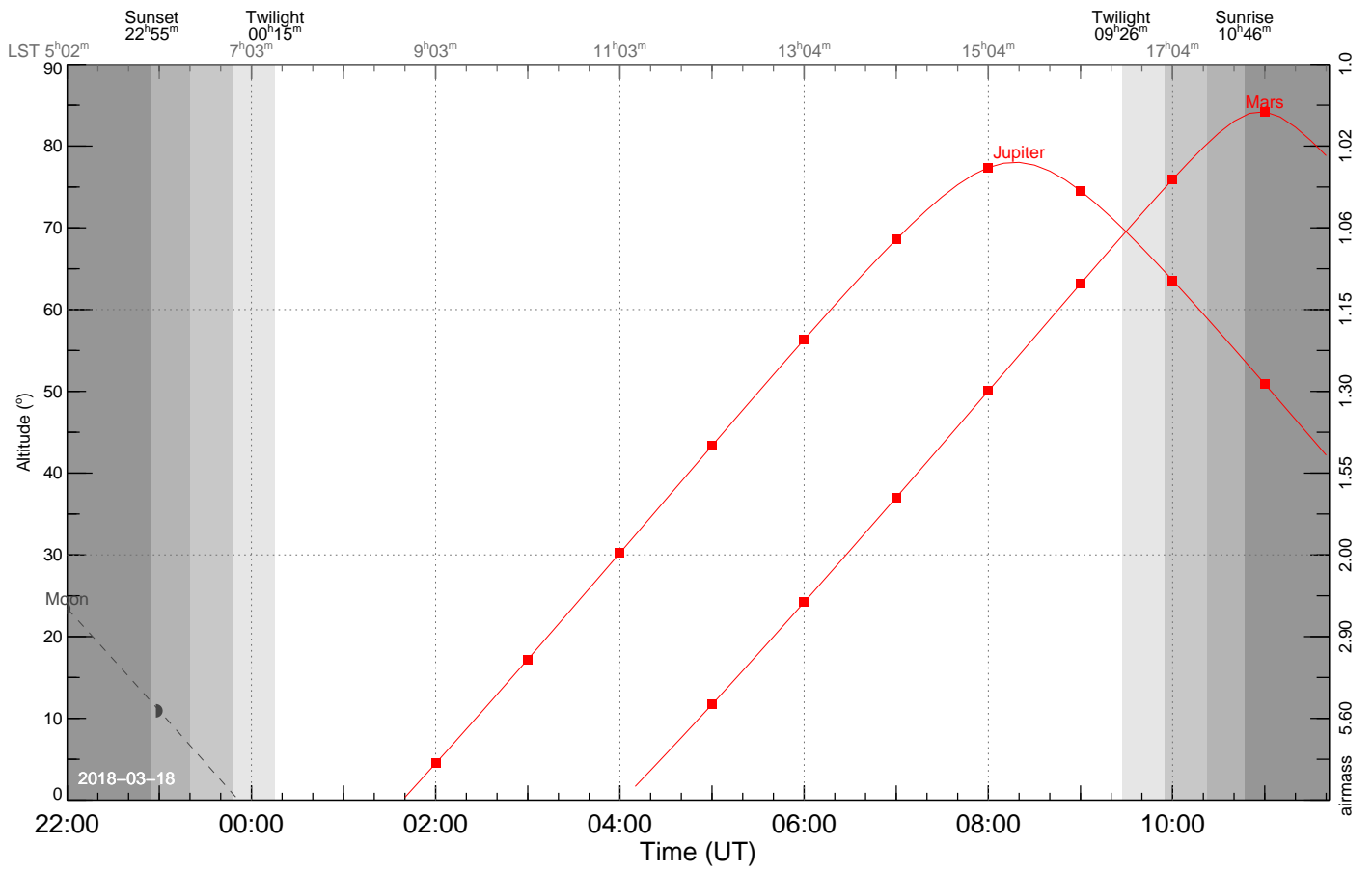
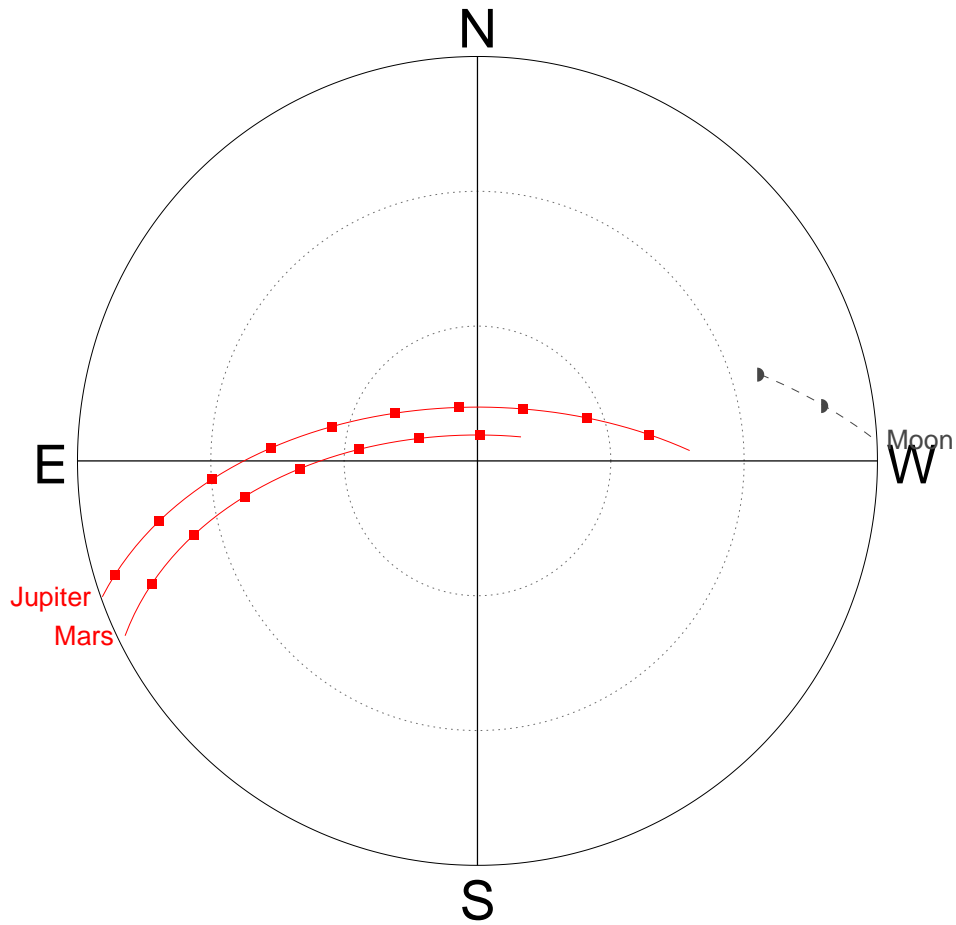


Figure 1: Airmass charts for epoch 2018-03-18






Target	$m_V$	$\phi$	$\mathcal{D}$	Alt	Az.	RA	DEC	Rate	$\lambda_G$	$\beta_G$	$r$	$\Delta$	$\alpha$	$\widehat{SEO}$	$\widehat{MEO}$	Links
Moon	-4.03	1872	$11^h 10^m$	6	276	$1^h 00^m 7^s$	$2^\circ 19' 54''$	1862	308	-60	0.003	0.993	162.9	17.1	0.0	<a href="#">iAce</a> – 
Jupiter	-2.29	40.34	$6^h 30^m$	78	356	$15^h 22^m 55^s$	$-17^\circ 17' 0''$	5	347	31	4.78	5.42	8.6	125.6	147.9	<a href="#">iAce</a> – 
Mars	0.51	7.63	$4^h 00^m$	79	57	$18^h 03^m 14^s$	$-23^\circ 29' 19''$	84	367	-1	1.23	1.55	40.0	87.8	111.4	<a href="#">iAce</a> – 

Table 1: Ephemerides summary for epoch 2018-03-18, values are reported at the time of the highest altitude.