

Friday, August 3, 2018

## Mars on Paris: Settings-apprenticeship.

An evening where learning mixes between practice and the works of realization.

Plus a super step forward for the development of images.

I will say more =)



Mars on Paris + 1

I have to choose the best moment to observe Mars in good conditions, because its distance to us varies very strongly: from 56 to 400 million km.

The most favorable moment is that of the opposition, when the planet is

**opposite to the Sun in relation to the Earth, which happens every two years.**

**Mars is then visible from sunset at sunrise and reaches its highest point in the sky in the middle of the night.**

**It is also the moment (Since few days) where the planet is closer to the Earth and is therefore the best observable, because with the largest apparent diameter.**

**However, this minimum distance can vary from 56 to 101 million km depending on the oppositions.**

**A variation due to the elliptical orbit of the Red planet and the respective periods of revolution of Mars and the Earth, which means that the opposition does not always occur where the two orbits are closest.**

**2018: Martian year.**

**Mars was in opposition on July 27, 2018, in particularly favorable conditions since its distance from the Earth was only 57.7 million km (compared to 76.1 million km in 2016) at that time.**

**This is the smallest distance since 2003 and such a situation will not happen again until 2035.**

**On July 27, the planet had an apparent diameter of 24.3 particularly attractive to observers and a magnitude of -2.8 , meaning a strong glow.**

**But Mars remains the brightest star of nights until mid-September 2018 (except for the planet Venus, which sets quite quickly behind the western horizon at night).**

**And the red planet also remains very observable several weeks after its opposition of July 27, because it returns to the interesting threshold of the 15 arc that the end of September 2018.**

**The only downside to this very favorable situation: in 2018, Mars is rather low on the horizon at the latitudes of France.**

**In Paris, it rises only a maximum of fifteen degrees.**

During the next opposition in 2020, the height of Mars from metropolitan France will be much more interesting with around 50 °, but it will be less close to the Earth and its apparent diameter will be lower.

Apparent movement of Mars on the sky from June to early October 2018, from 10 days to 10 days.

The loop-shaped trajectory is characteristic of the moment of opposition: Mars moves more slowly than the Earth in a farther orbit, so the Earth doubles the Red planet, giving this amazing apparent trajectory called the retrogradation loop. .

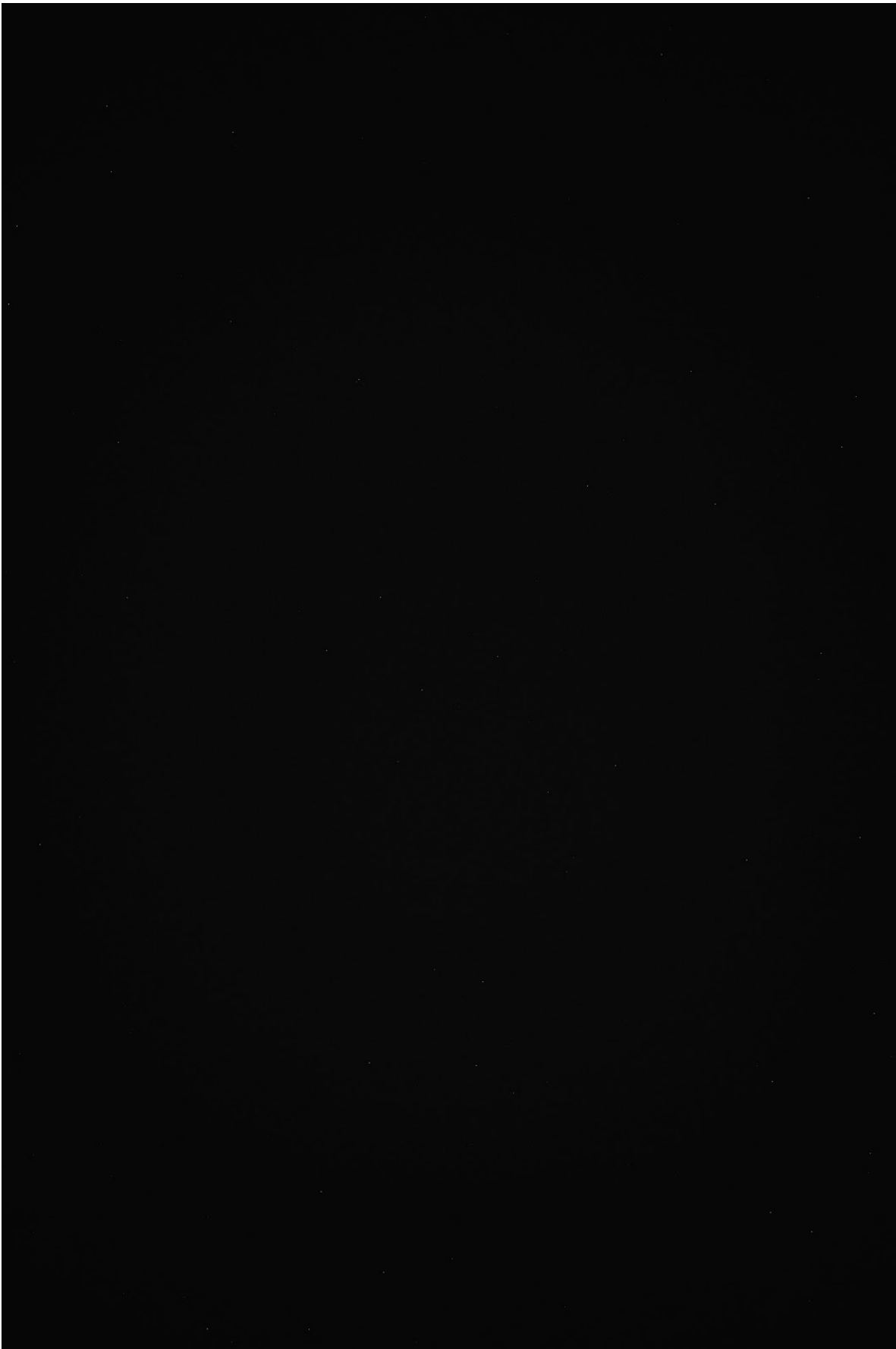
Martian meridians according to date:

Table calculated for the center of France (47 ° North and 3 ° East), legal time in Paris.

- 10/08/2018 0h 53min 16 ° -2.61 23.9 "
- 20/08/2018 0h 06min 16 ° -2.39 22.7 "
- 30/08/2018 23h 21min 17 ° -2.14 21.1 "
- 10/09/2018 22h 42min 18 ° -1.84 19.1 "
- 20/09/2018 22h 13min 19 ° -1.58 17.4 "
  
- 30/09/2018 21h 48min 20 ° -1.32 15.8 "

Settings apprenticeship update:

Manual settings.



Stars +1



The most beautiful Moon Landscape i have got + 1



Mars on Paris 2 + 1

Posted by [Veronica IN DREAM](#) at 11:39 PM