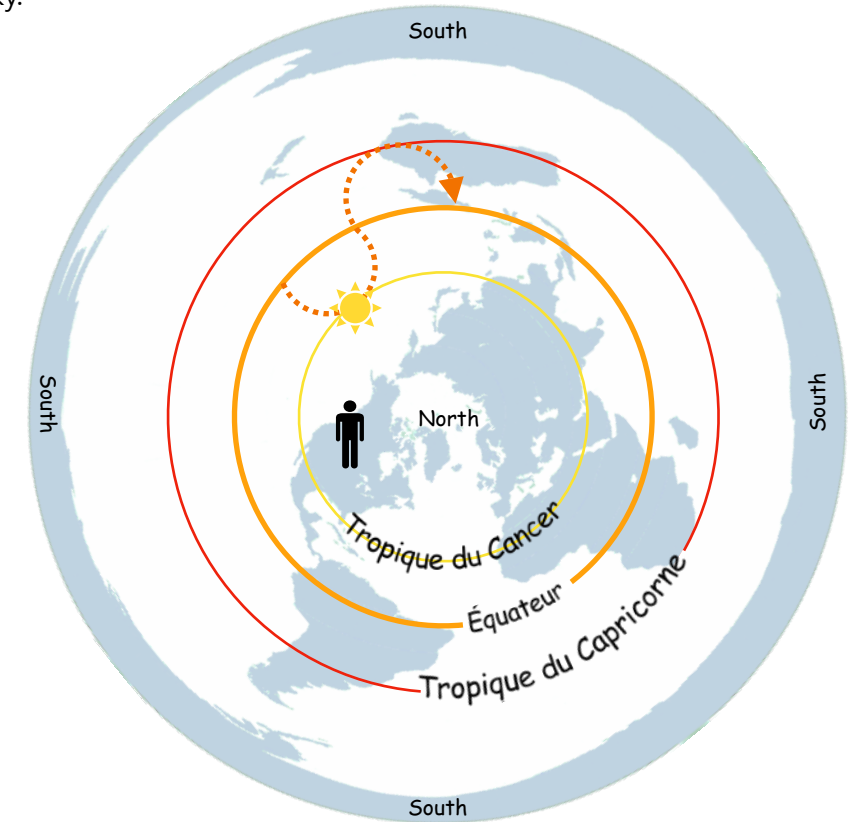
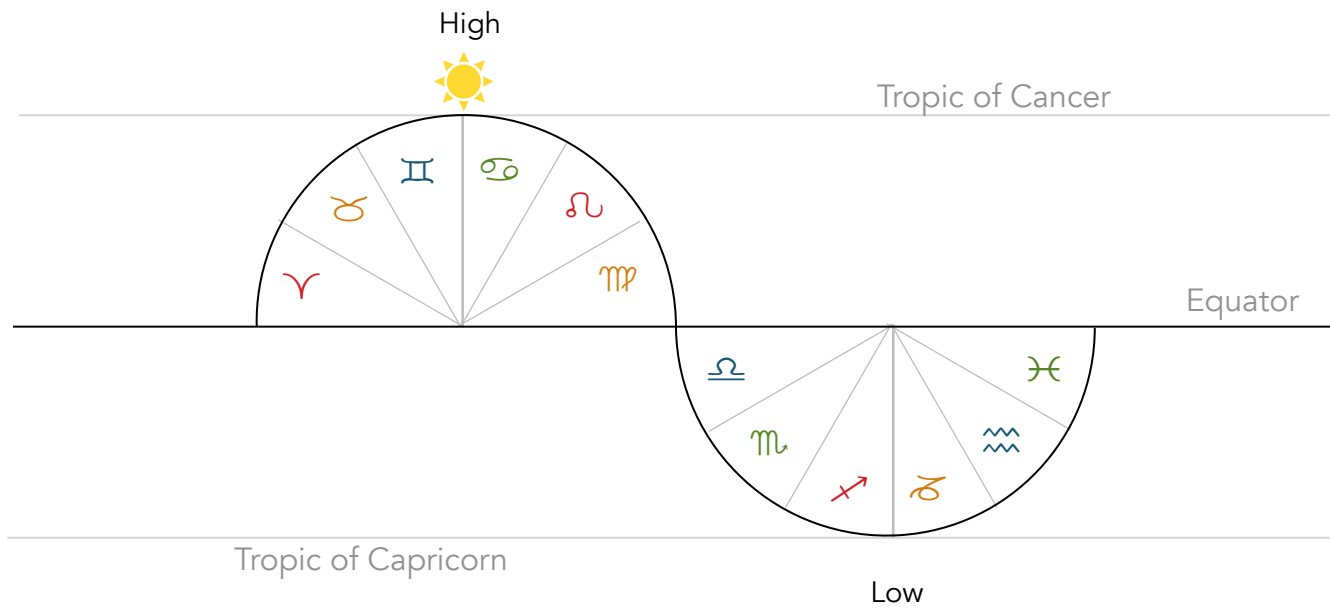


### The Sun is moving on the Zodiac, between the Tropics.

The Tropical Zodiac has nothing to do with the constellations in the sky.

For the people in the Northern Hemisphere, the Sun is close the Tropic of Cancer in the summer and thus appeared high in the sky.

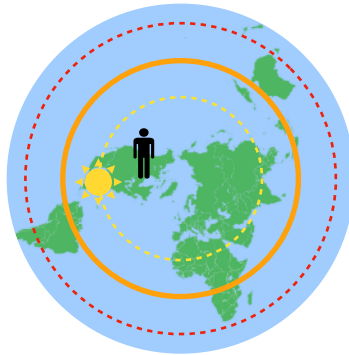
In the winter, the Sun moving close to the Tropic of Capricorn is far away from us and thus appears low in the sky.



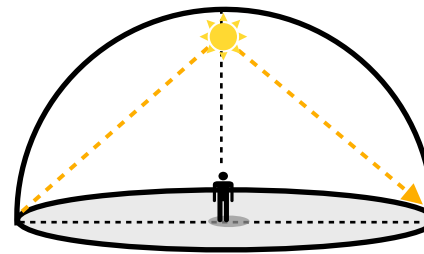
## Seasons in the Northern Hemisphere

### Summer

The Sun is close...

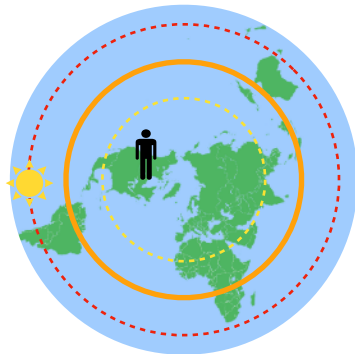


... and appear high  
in my dome of vision

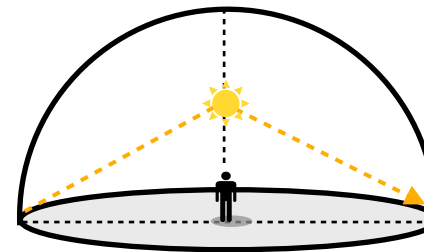


### Winter

The Sun is far...

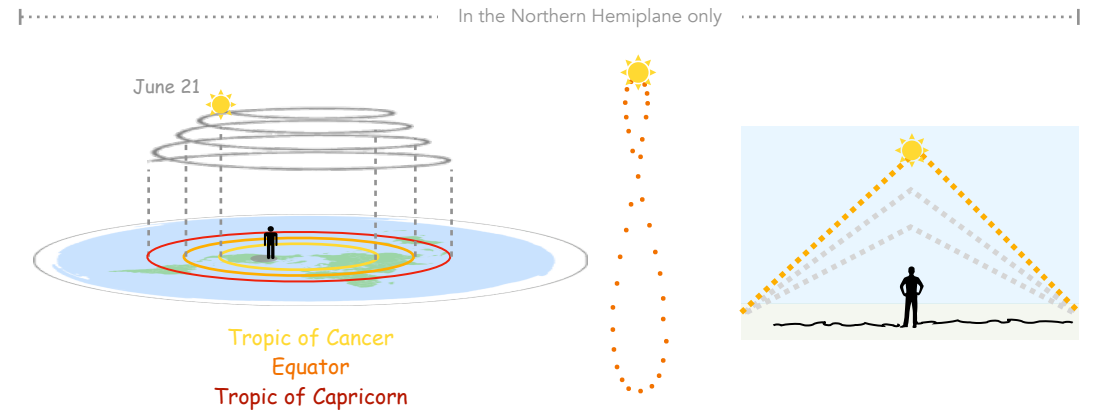
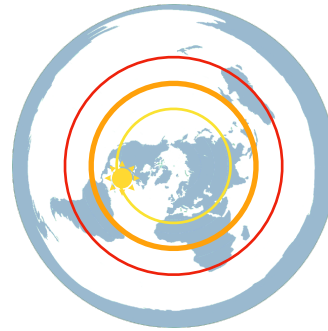
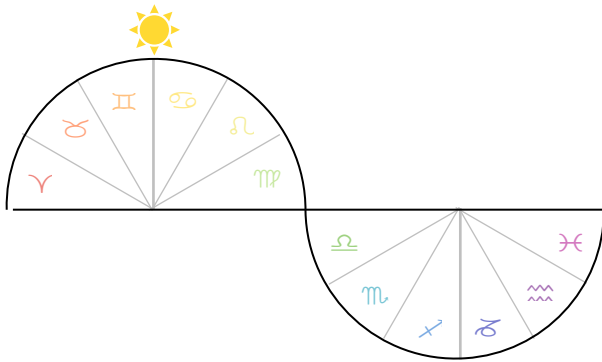
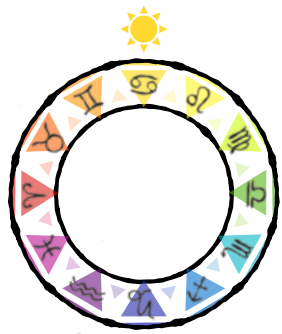


... and appear low  
in my dome of vision



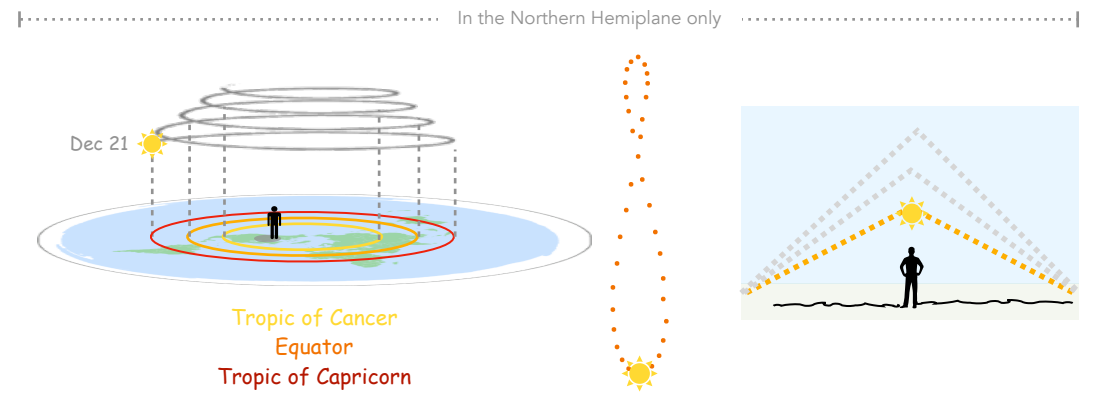
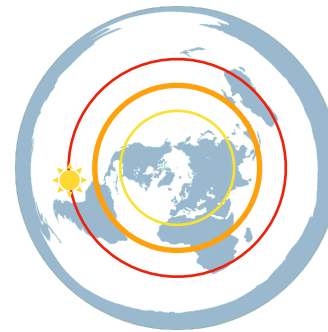
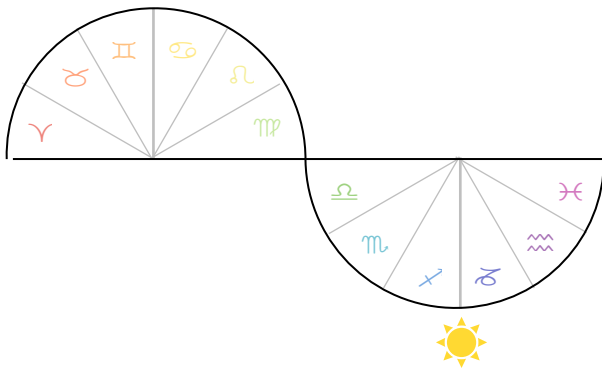
## June 21

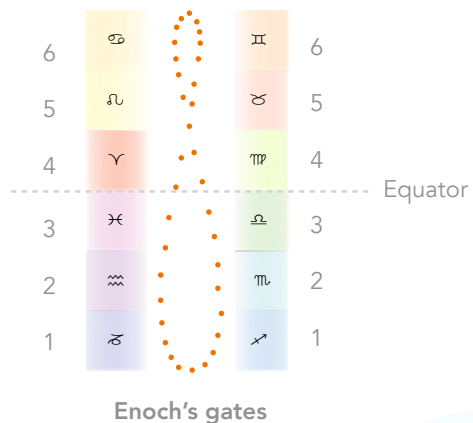
### Sun enters Cancer



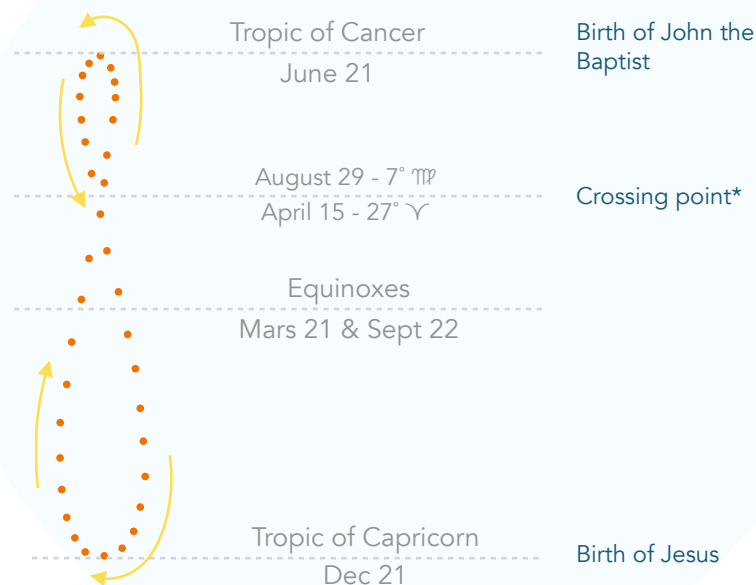
## December 21

### Sun enters Capricorn





# Analemma



## Seen from North or South



### Analemma seen from the North Hemisphere

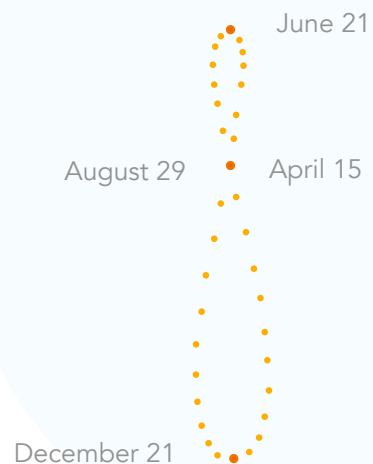
The short path across the Tropic of Cancer is **closer** and appears higher in the sky.

### Analemma seen from the South Hemisphere

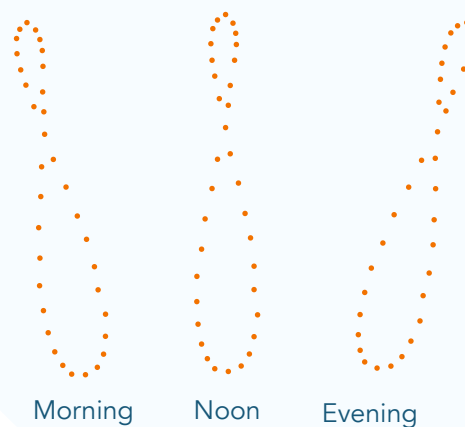
The long path across the Tropic of Capricorn is closer and appears higher in the sky.

## Day lenght

Days length are exactly 24 hours only on these 4 dates:



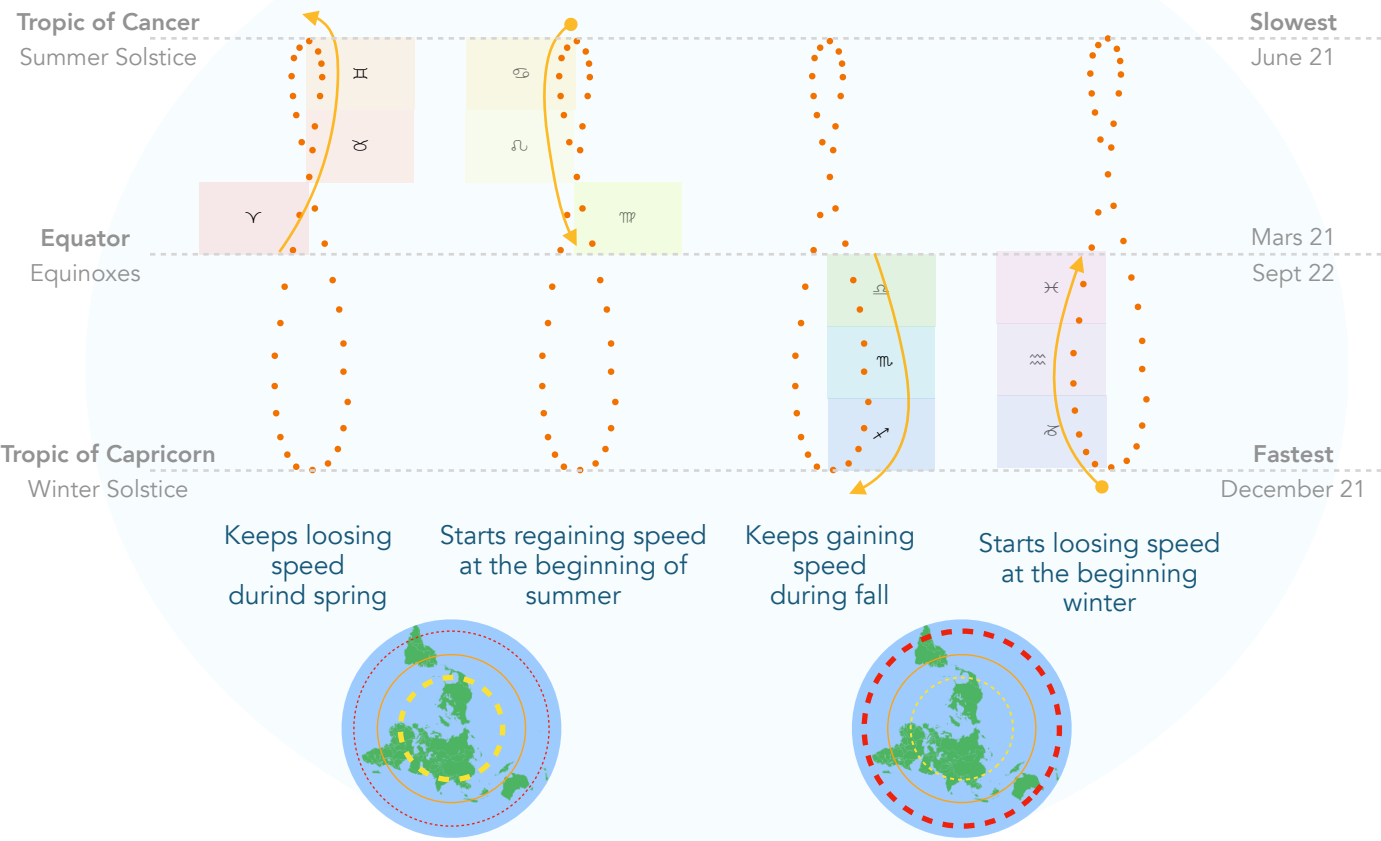
## Time of the picture



### \*Signification of the crossing point

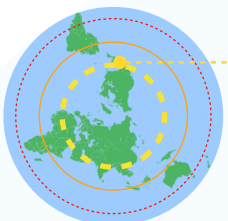
The **beheading of John the Baptist**, also known as the **decollation of Saint John the Baptist** or the **beheading of the Forerunner**, is a biblical event commemorated as a **holy day** by various [Christian churches](#).

# Speed of the Sun



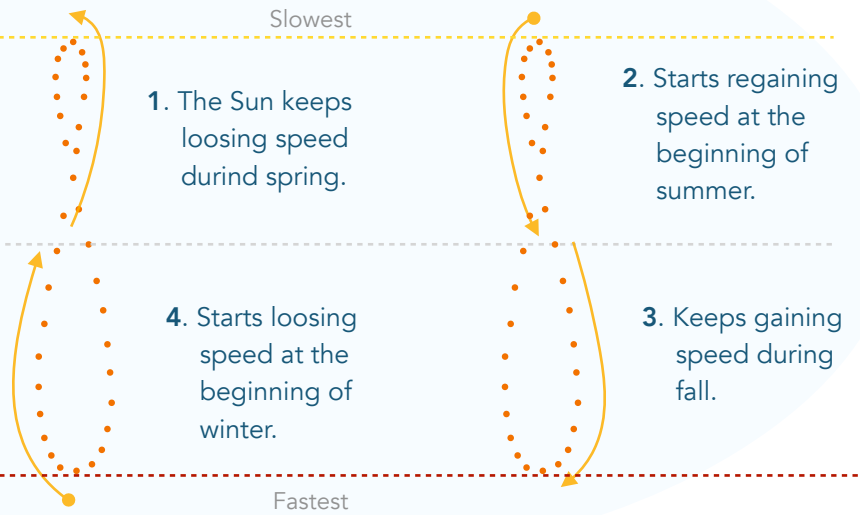
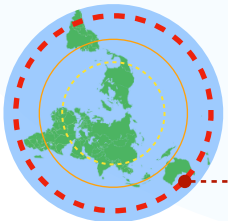
# Speed of the Sun

Because it moves around a small circle, the Sun is slow around Tropic of Cancer.



Equinoxes  
Mars 21 & Sept 22

Because it moves around a big circle, the Sun is fast around Tropic of Capricorn.



1. The Sun keeps losing speed during spring.

2. Starts regaining speed at the beginning of summer.

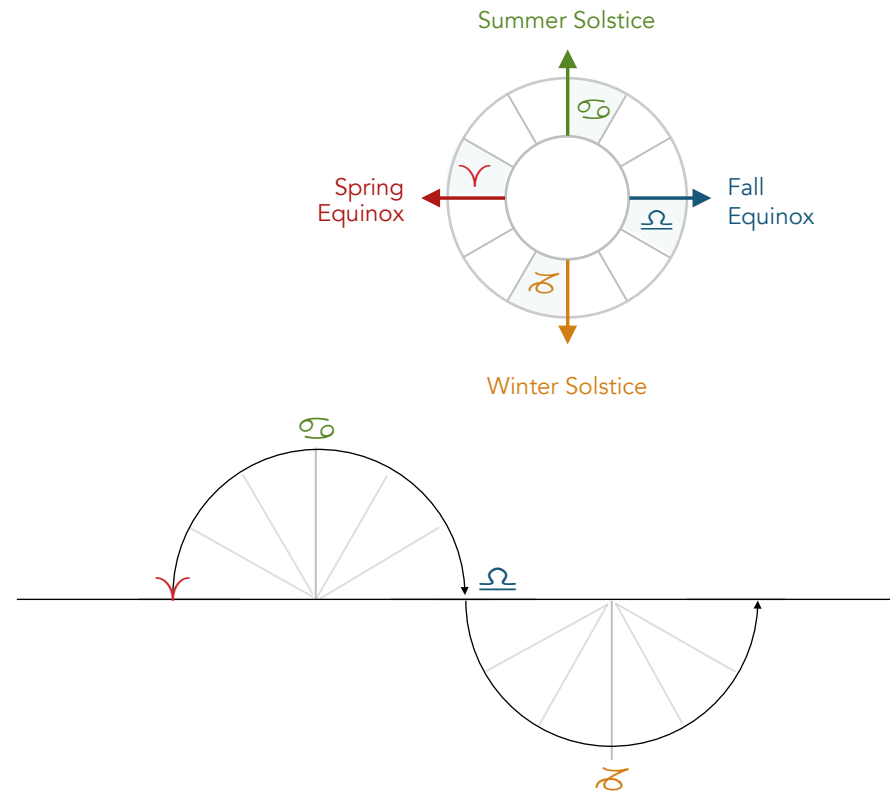
3. Keeps gaining speed during fall.

4. Starts losing speed at the beginning of winter.

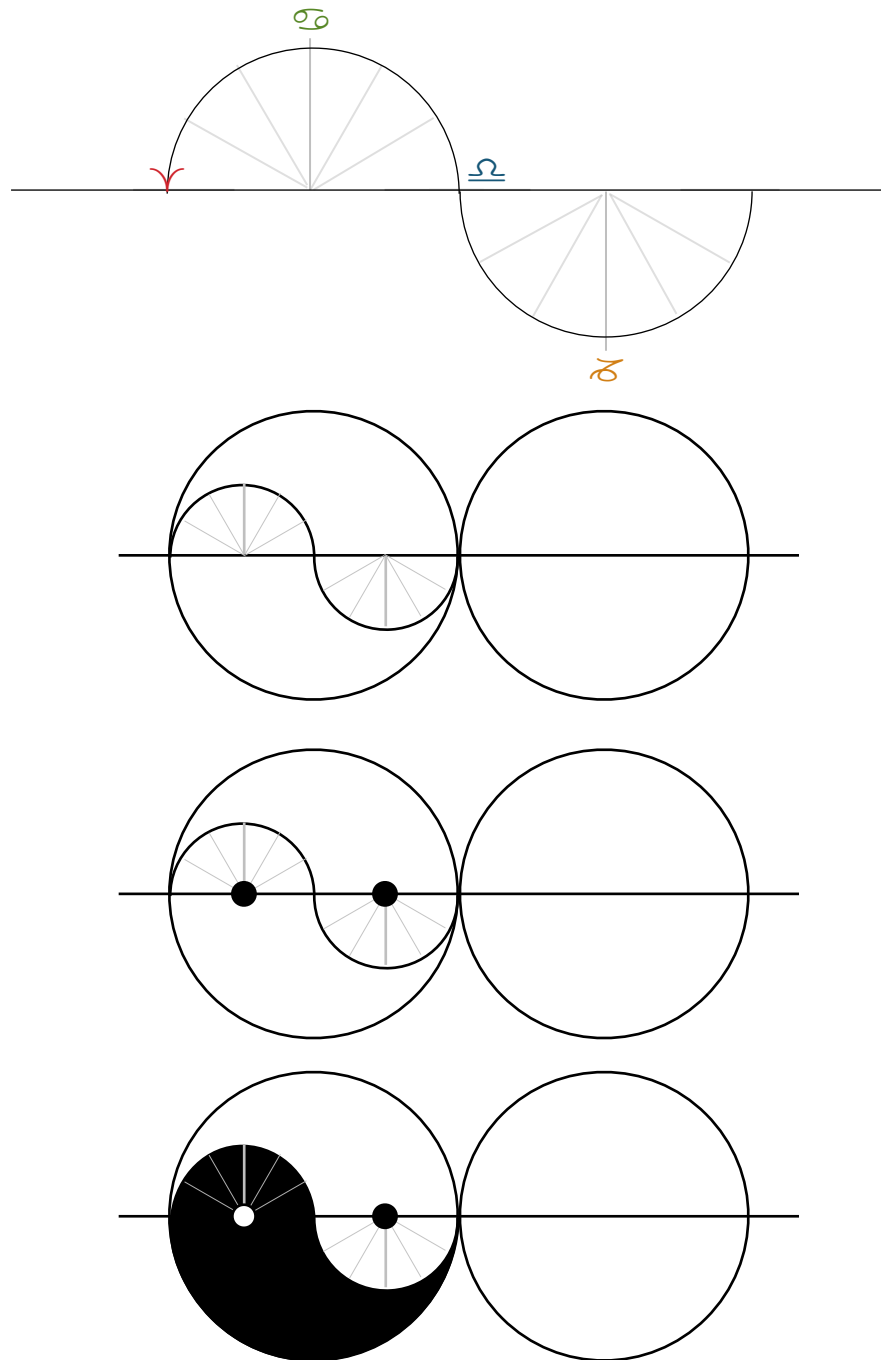
## Cardinal Signs are turning Points

- 0° Aries; day-night balance point.  
From this point, the **day/night balance is broken**. The day force takes over. (Spring Equinox).
- 0° Cancer, the longest day.  
Here, light is at its peak (Summer Solstice).  
**We change direction** as light will now diminish.
- 0° Libra; day-night balance point.  
From this point on, the **day/night balance is broken**. The night force takes over. (Fall Equinox).
- 0° Capricorn; the longest night.  
Here, light is at its minimum (Winter Solstice).  
**We change direction** as light will now increase.

The relationship to a starting point (0° Aries) brings up the notions of up/down and left/right.  
Thus, **each 0° Cardinal creates a new reality, a new season.**



# Ecliptic & Tao

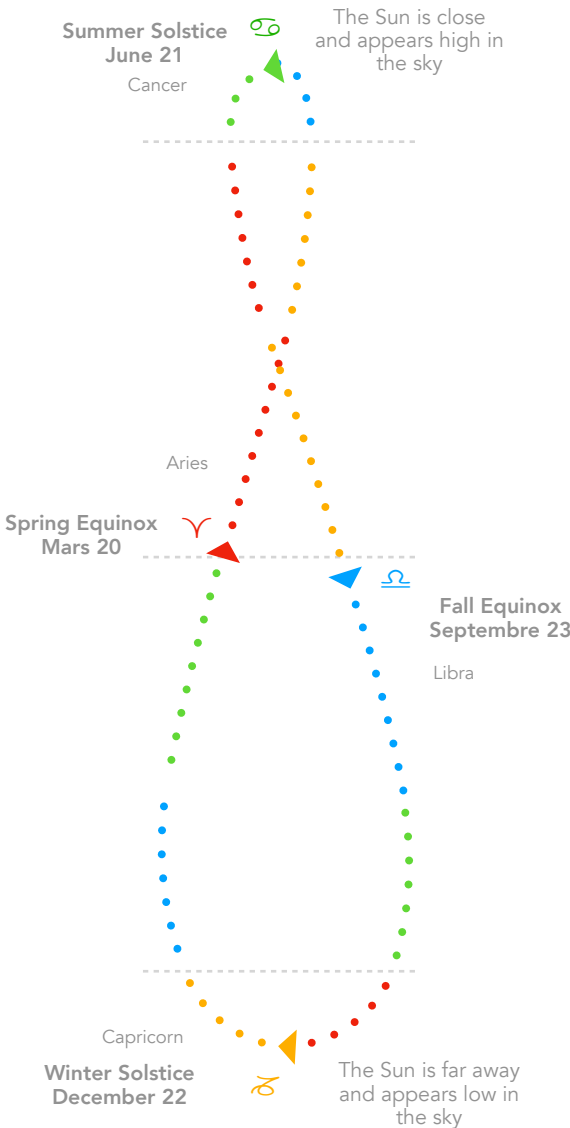




# Sun Analemma

In the Northern Hemisphere







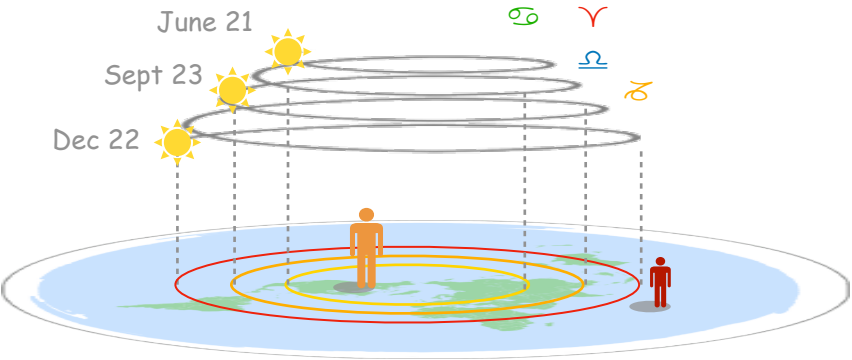
# Sun's path

One year

1°/day  
around the zodiac

From the winter solstice onwards, the sun **seems to rise higher** as it moves closer to the north for 6 months.

From the summer solstice onwards, the sun **seems to descend lower**, as it moves away from the north for 6 months.



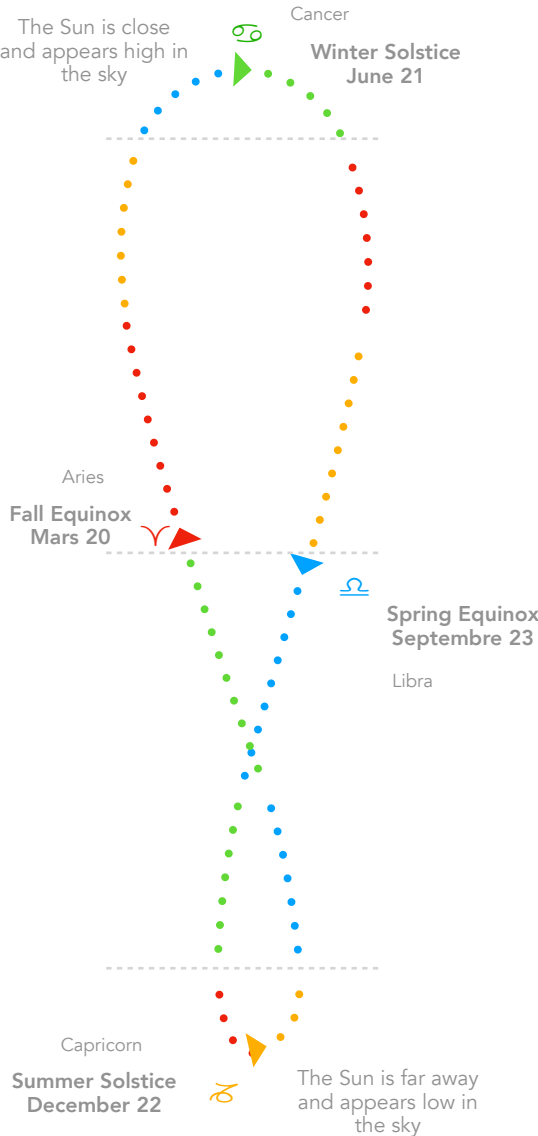
Tropic of Cancer  
Equator  
Tropic of Capricorn

☉

# Sun Analemma

In the Southern Hemisphere

🧑



☉

# Sun's path

One year

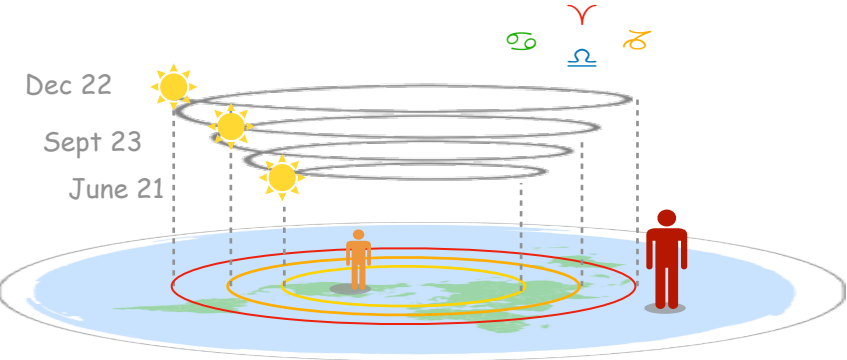
1°/day  
around the zodiac

↑

From december 22 onwards, the sun **seems to rise higher** as it moves closer to the south for 6 months.

↓

From june 21 onwards, the sun **seems to descend lower**, as it moves away from the south for 6 months.



# Moon Analemma

In the Northern Hemisphere

**Just like the Sun, when the Moon is in Cancer:**

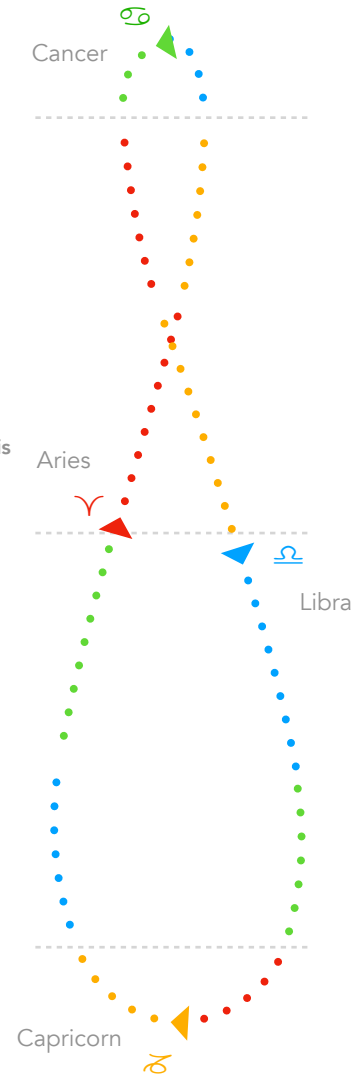
She is close, that is why she appears high in the sky.  
Her 'day' or visible period is longer (around 18 hours).

**Just like the Sun on the equinoxes, when the Moon is over the Equator:**

She is visible 12 hours.

**Just like the Sun, when the Moon is in Capricorn:**

She is far away, that is why she appears low in the sky.  
Her 'day' or visible period is shorter (around 7 hours).



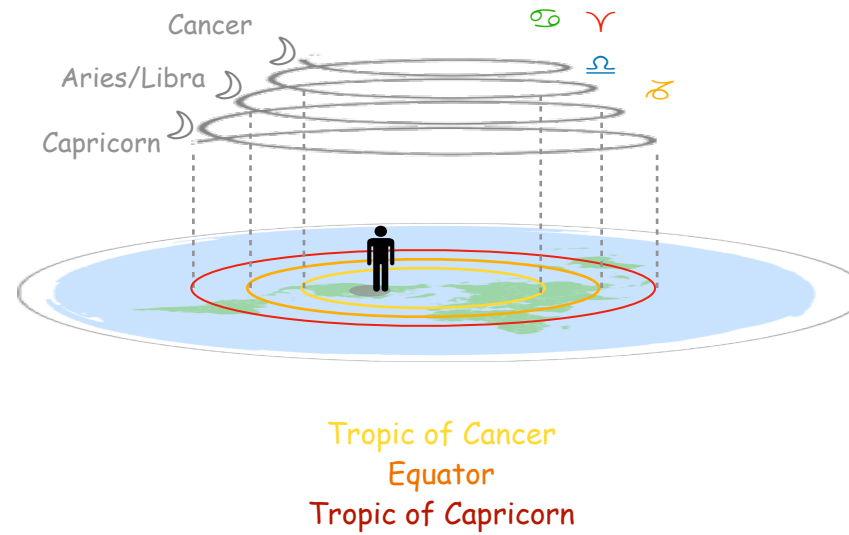
# Moon's path

One month = 29.5 days

15°/day  
around the zodiac

From the 1° Capricorn onwards, the moon seems to rise higher as she moves closer to the north for 15 days.

From the 1° Cancer onwards, the moon seems to descend lower, as she moves away from the north for 15 days.





## What is this curious clock?

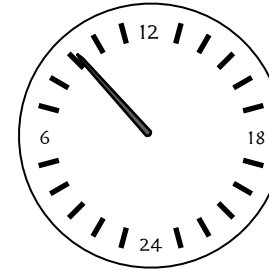
A 24 hour  
clock

+

An azimuthal  
map

+

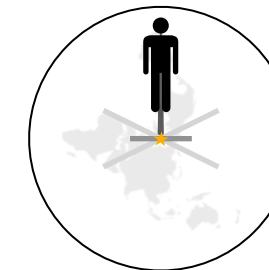
The observer's  
city located at  
the zenith  
(Here Montreal)



1



2



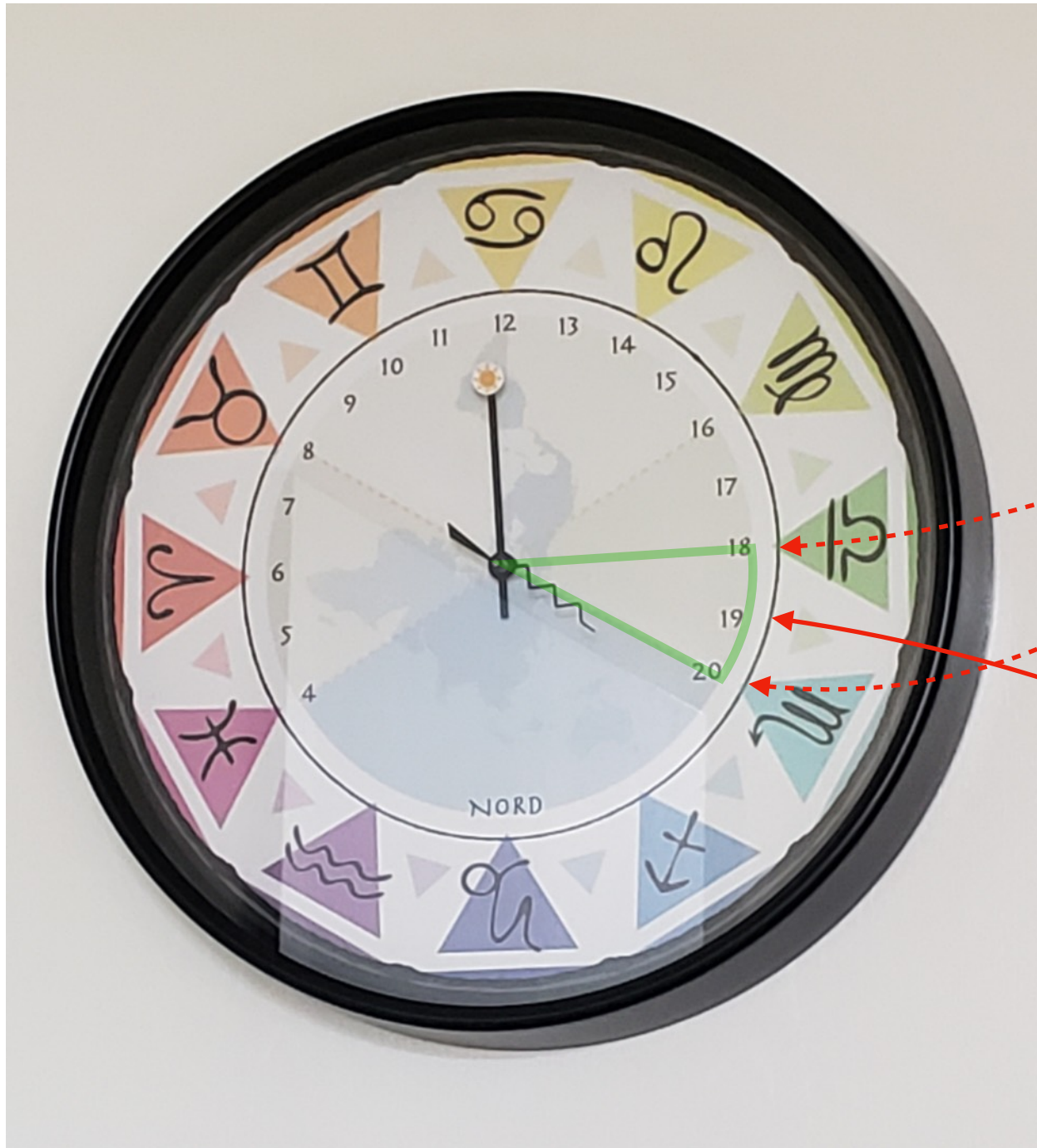
3

These three elements  
combined define Azimuth  
Clocks and allow you to:

- Know the length of the day;
- Track the height and path of the sun in the sky;
- Read the natural time anywhere in the world;
- Have a compass.

These clocks reconnect us  
to the rhythm of the sun  
(our natural rhythm) and to  
our place on the earth.

Learn more here:  
[claireobscure.com/flaearth](http://claireobscure.com/flaearth)



**One example of the infos given by a 24h  
Azimuth Clock set for Montreal ;**

Today, the Sun is at 15° Taurus, wich is the  
exact midle of the spring.

I know that the sun will set exactly in  
between the equinox point and the  
Summer solstice point.

Equinox point

Summer solstice point  
for Montreal.

Indicated by the bottom  
of the green pie slice.

Today may 4th, in the middle  
of the season (15° Taurus), the  
sun sets in the middle of the 2  
points (at 19h, natural time)

Graphics really help me  
understand, and this clock is a  
living graphic. :)



DIY !  
I hope this will inspire you  
to create your own customized **Azimuth Clock**.

Follow the Sun's path! :)

Learn more:  
[claireobscure.com/flaearth](http://claireobscure.com/flaearth)



