

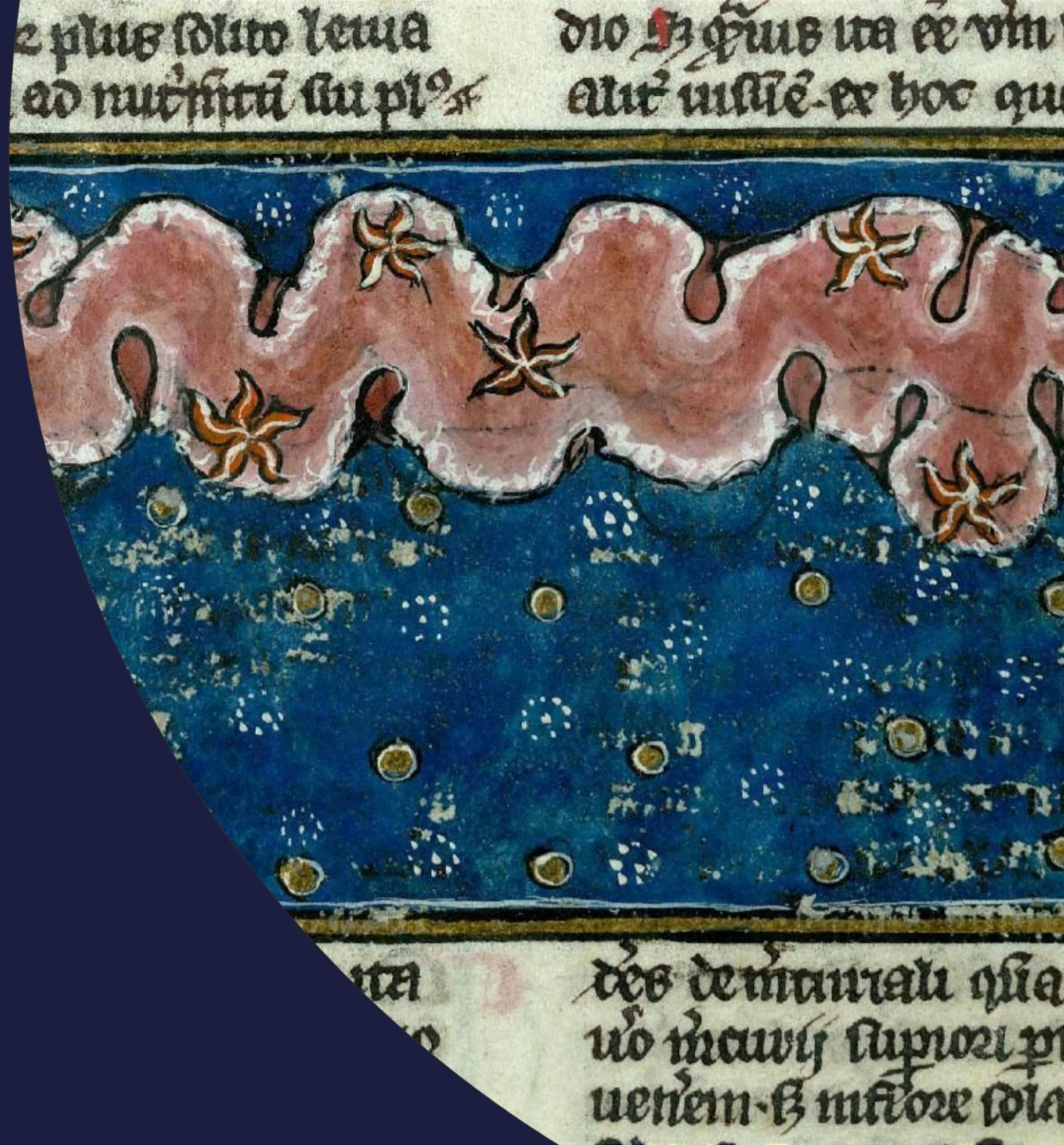
Dark Skies and Light Pollution: An Art-Historical Approach


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*If the stars should appear one
night in a thousand years, how
would men believe and adore! ...*

*But every night come out these envoys
of beauty and light the universe with
their admonishing smile.*

Ralph Waldo Emerson, 1836

Visual images of the
sky/'heavens' - as
essential backstory
to the *protection* of
the Dark Sky

- Contemplation of stars, planets and 'the heavens' as familiar inspiration of religions, philosophies, myths and legends
- Ancient Greeks, medieval Europe, industrial age and our own times (Milky Way as 'case study')
- Grasping the complexities of the universe leading to scientific theories
- Yet - science is removing astronomical phenomena from common sight

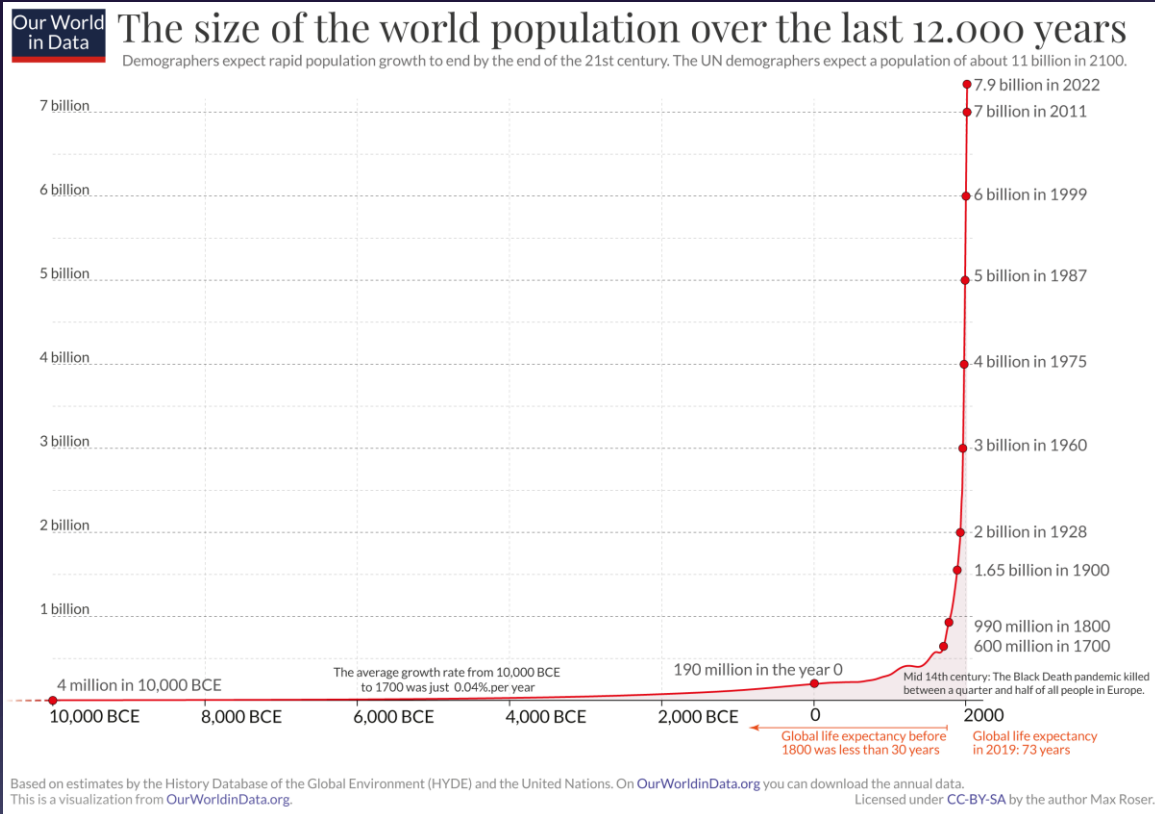
An aerial night view of a city skyline, likely Los Angeles, with numerous skyscrapers and city lights. A large, dark circular overlay is positioned on the left side of the image, containing white text. The text discusses the visibility of the Milky Way galaxy and the impact of light pollution.

Focus on our Galaxy – the ‘Milky Way’

‘The Milky Way is no longer visible to one third of humanity - including 60 percent of Europeans and 80 percent of Americans’

During a 1994 blackout, L.A. residents called 911 emergency number when they saw the Milky Way for the first time

World population and light pollution



Monaco - less than one square mile, pop 37,500

Familiarity with night sky: Babylonia, Egypt



Sky goddess Nut (as 'Milky Way')

Boundary stone
Babylonian c 1125-1104 BC

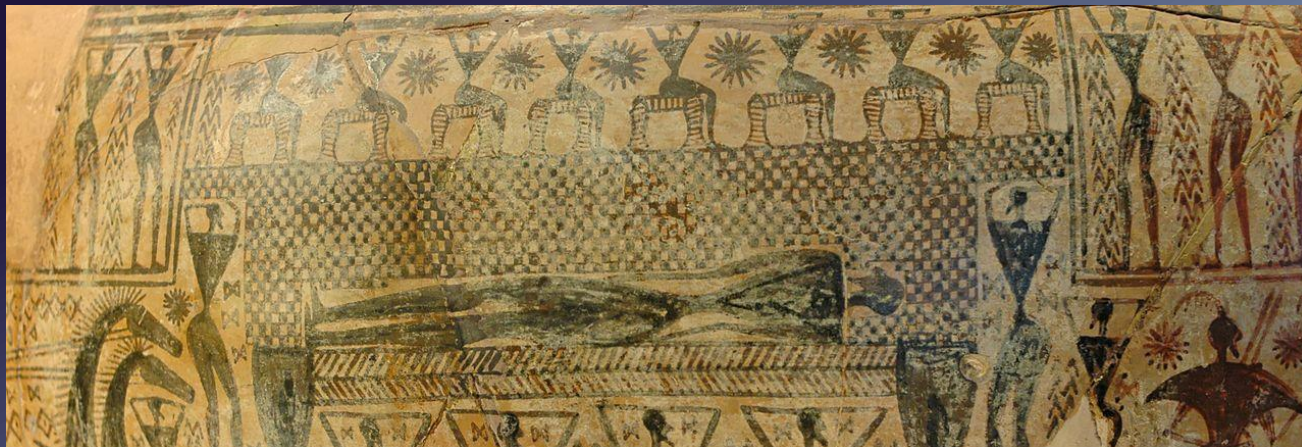


Greece

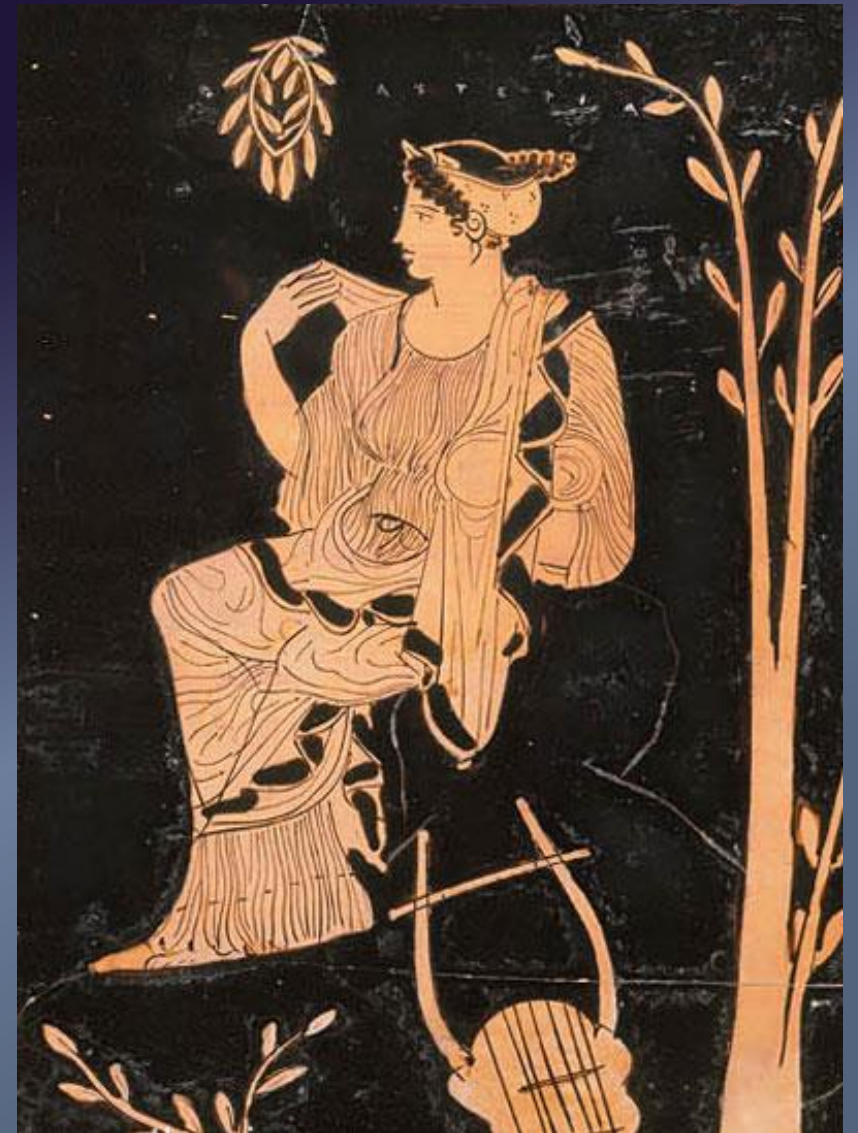
None of the accounts concerning the Universe would ever have been given if men had not seen the stars or the sun or the heaven.

... the vision of day and night, months and years has created the art of number ... the notion of Time ... and means of research into the nature of the Universe.

Plato, *Timaeus*, 47 A-B



Detail of Vase, late Geometric, c. 750 BC



Asteria - Goddess of falling stars and night
5th century BC

... and Rome



'... that circle that shines forth among the stars which the Greeks call the Milky Way' (Cicero)



Ancient settlements, Greece, Rome: rush lights, torches, oil lamps

Population Education - <https://vimeo.com/130468614>

Hadrian Silver Denarius (Pleiades)
115-28, BNK,R.404 (BM)

Early
medieval

Norse



Body-parts of the slaughtered Ymir ‘...thrown into the sky to make the sun and moon and stars and planets’

Poetic Edda, 13th century (from earlier tradition)

Judaeo-Christian - *And God made two great lights; the greater light to rule the day, and the lesser light to rule the night: he made the stars also (Genesis 1:16)*



The Mausoleum of Galla Placidia, Ravenna - 425

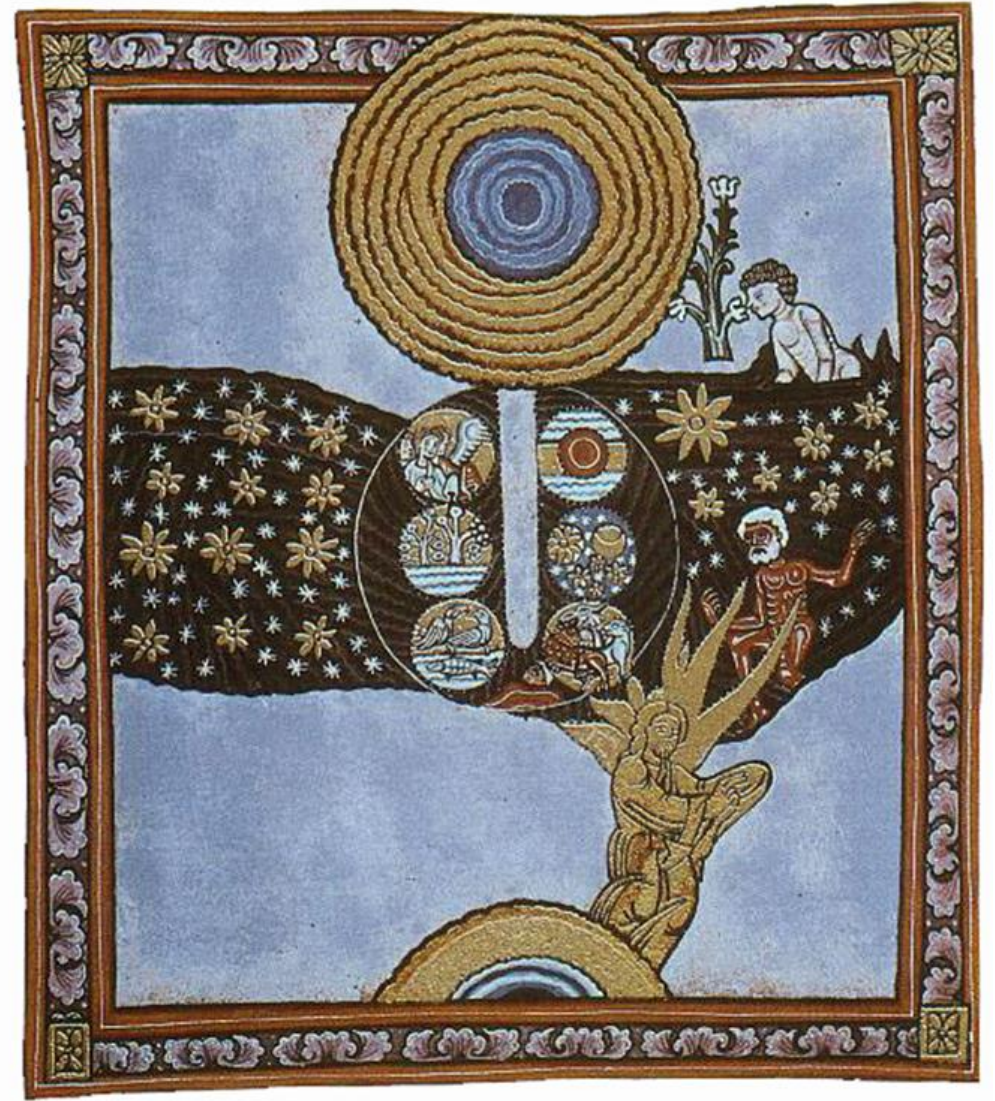


S Apollinare in Classe Ravenna, 7th century

Judaeo-Christian art and architecture (from 12th century)



Monreale, Sicily *God Creating the Universe*, 1180s



Hildegarde of Bingen, *Six days of Creation*
Scivias 12th century





St Mark's Venice Ascension Dome

12th century

'Arc en ciel' – or Milky Way?

in gant.



Via Lactea, Cod. Pal. germ. 832 (1491) Heidelberg

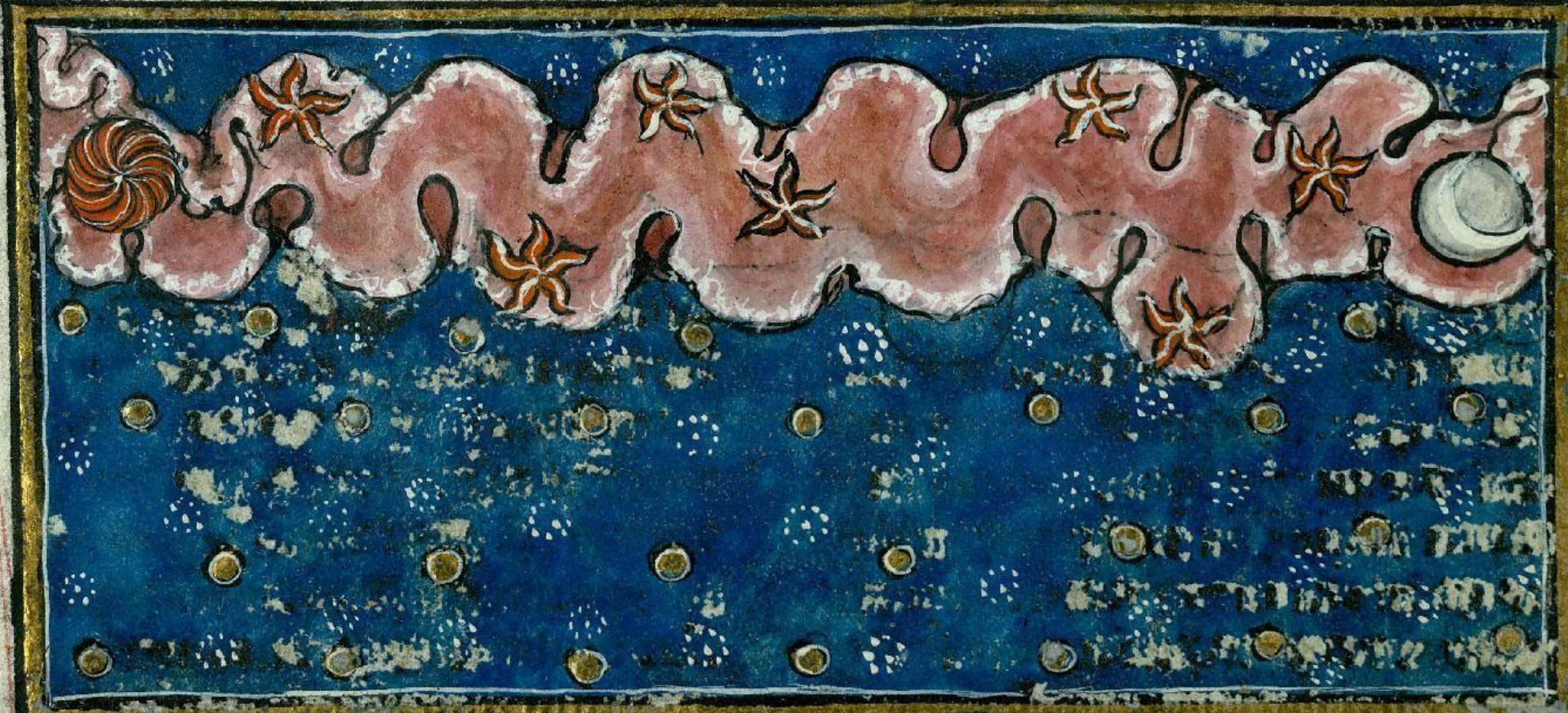


Via lactea zu teutsch ein weisser kraiss oder herstrass tailet den himel

Milky Way as Circle of Stars (12th century)
Biblioteca Nacional de Espana, Madrid (A 16, fol 68v)

cetera corpora stellarum plus solito leuia
ascendunt. Si item ad nutrimenta sua pl^u

ditio. Si quibus ita esse vult sic calderis tam
aliter visum. ex hoc quod dicemus



Sol mercurius et uenus ita
iuncti sunt quod in eodem spacio
temporis. Cum anno unus uenit ne

des de mercuriali quia desolari. Circul^o
uero mercurij superioris pro se misereat
uenerem. Si inferior solari. Circul^o autem

Matfré Ermengau of Béziers,
Breviari d'Amour
 Spain (Catalonia)
 last quarter of 14th century
 (British Library)





Macrobius, Commentary on Cicero's
Dream of Scipio (meeting his
ancestors in the 'Milky Circle')

Bologna c.1383

Lat. 256, fol. Iv, Oxford, Bodleian Library

Giotto, Arena Chapel, Padua, 1305



Chaucer (c1340-1400)

The Milky Way

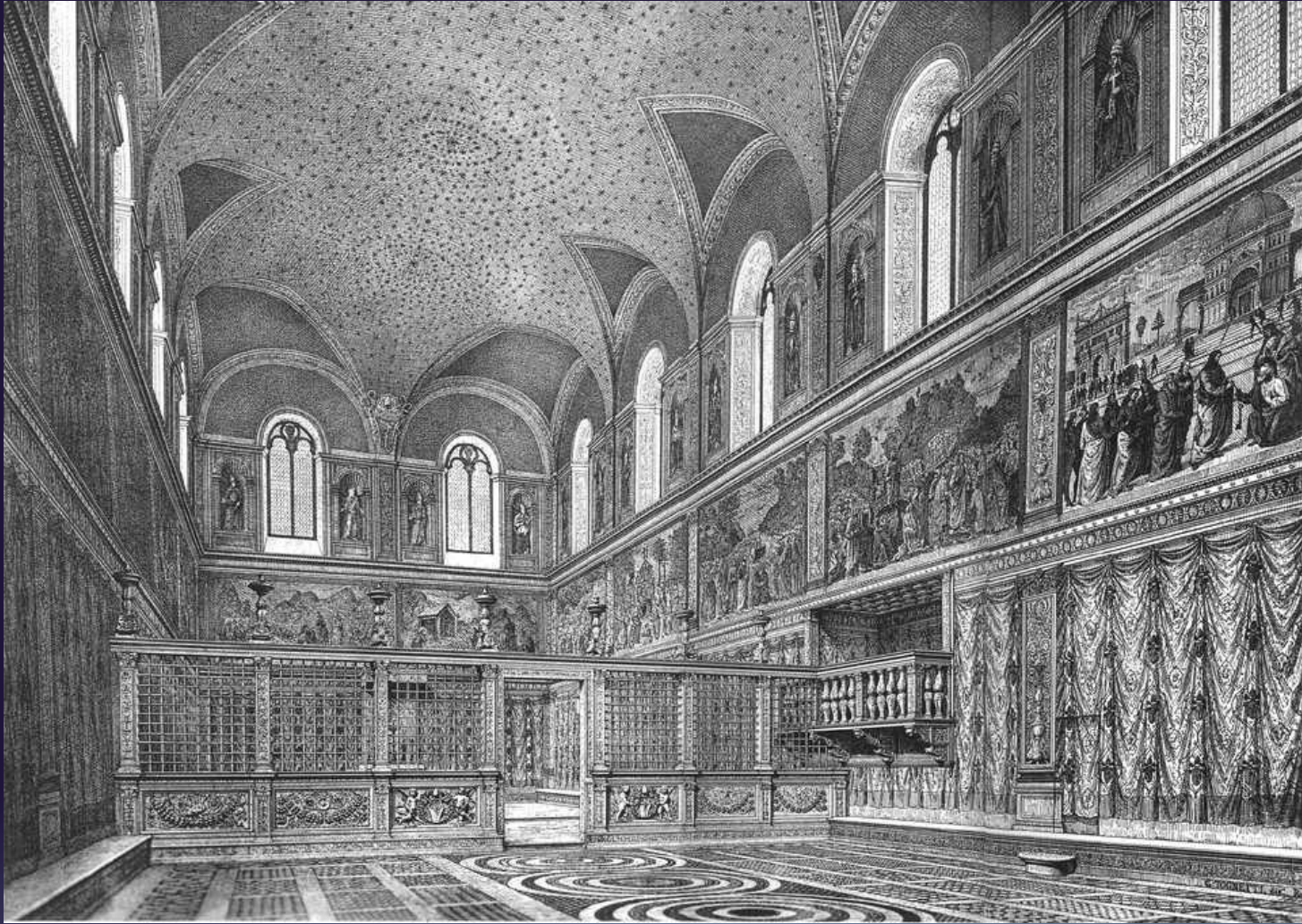
'Lo,' quoth he, 'cast up thine eye
See yonder, lo! the galaxie
The which men clepe the Milky Way
For it is white ...'



Padua 14th century



Sistine Chapel Ceiling with starry sky, c 1479-80 ('pre-Michelangelo')



Originally painted brilliant blue with gold stars

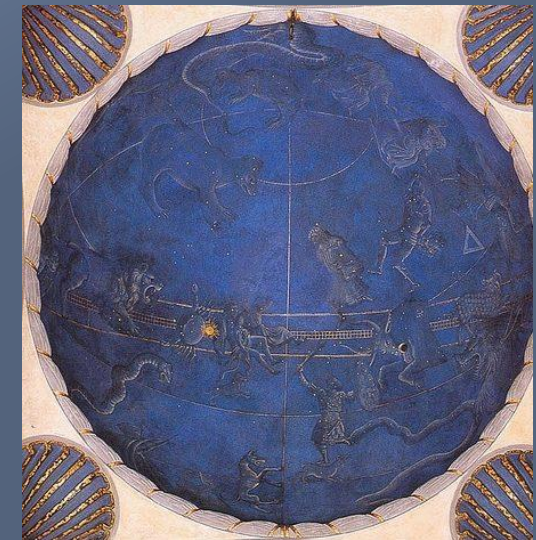


Dante, *Divine Comedy Paradiso*: I saw
the lovely things the heavens hold and we
came out to see once more the stars

Shakespeare, *Romeo and Juliet*: Take
him and cut him out in little stars/And he
will make the face of heaven so fine/That
all the world will be in love with night

Shakespeare, *Julius Caesar*:
The fault, dear Brutus,
is not in our stars,
but in ourselves ...

Old Sacristy San Lorenzo



Shakespeare, *King Lear*, (c. 1606)

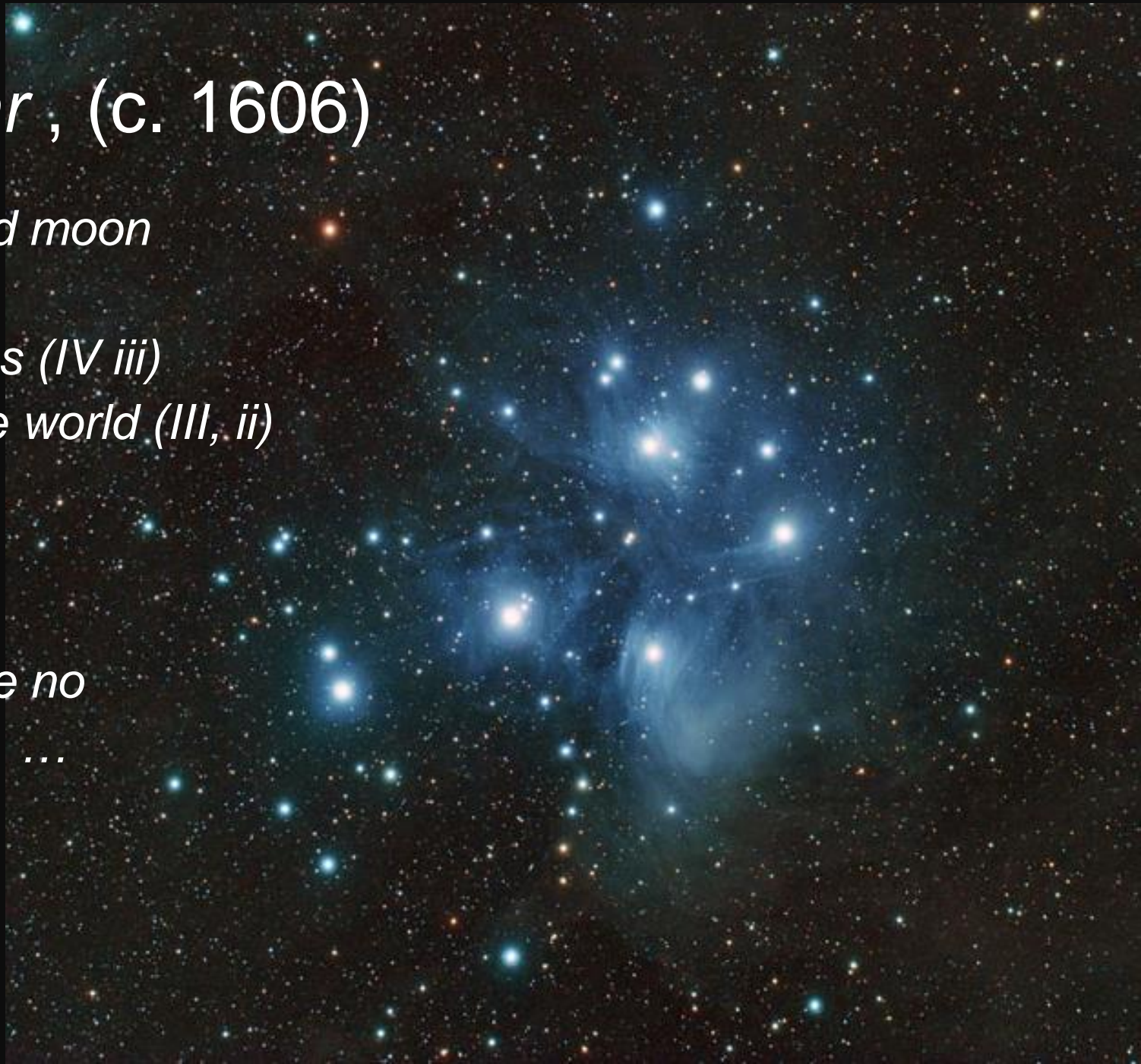
- *These late eclipses in the sun and moon
portend no good ... (I, ii)*
- *It is the stars above that govern us (IV iii)*
- *Smite flat the thick rotundity o' the world (III, ii)*

A Riddle:

*The reason why the seven stars are no
more than seven is a pretty reason. ...*

Because they are not eight? ...

Yes, indeed. (I,v)



Tintoretto, *Birth of the Milky Way* 1575-80 (NG)



Peter Paul Rubens, *the Birth of the Milky Way* c 1637 Prado



Population growth and lighting

1417 - London first organised lighting of streets (Mayoral decree)

1802 - more efficient coal-fueled lighting (William Murdoch)

1807 - London's first gaslit road

1816 - Baltimore gaslit streetlights

1820 - Paris (1st electric lights, 1878)

1879 - Thomas Edison, incandescent lamps, led to light bulbs for street lighting



Wordsworth (1770-1850), *I Wandered Lonely as a Cloud...[Daffodils] continuous as the stars that shine/And twinkle on the milky way ...* (1804, Lake District)

Byron (1788-1824), *She walks in beauty, like the night, Of cloudless climes and starry skies* (London, June 1814)





Van Gogh, *Starry Night Over the Rhône*, 1888
Arles

Van Gogh, *Starry Night* 1889,
Saint-Rémy-de-Provence

Edward Hughes
(1851-1917)

*Night with her
Train of Stars*
1912









Norah Napaljarri Nelson, *Milky Way Dreaming*
c 2004 (Legends of the Warlpiri)



Norah Napaljarri Nelson, *Milky Way Dreaming*
c 2004 (Legends of the Warlpiri)

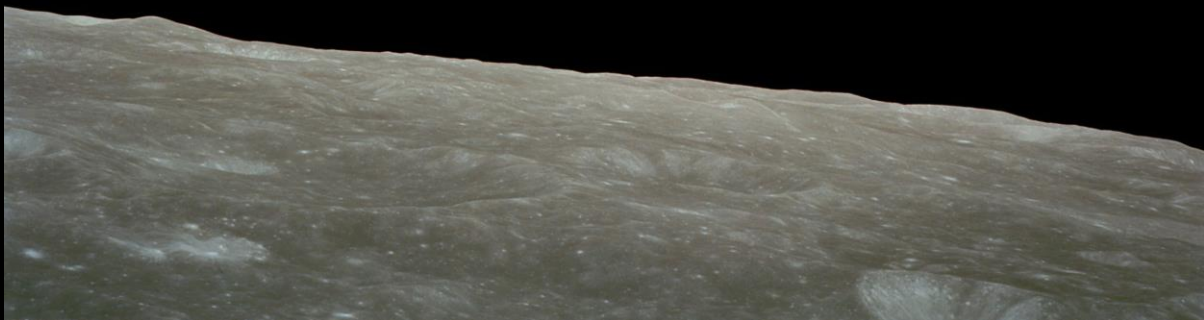


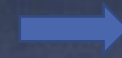
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Thank you!
Any questions?