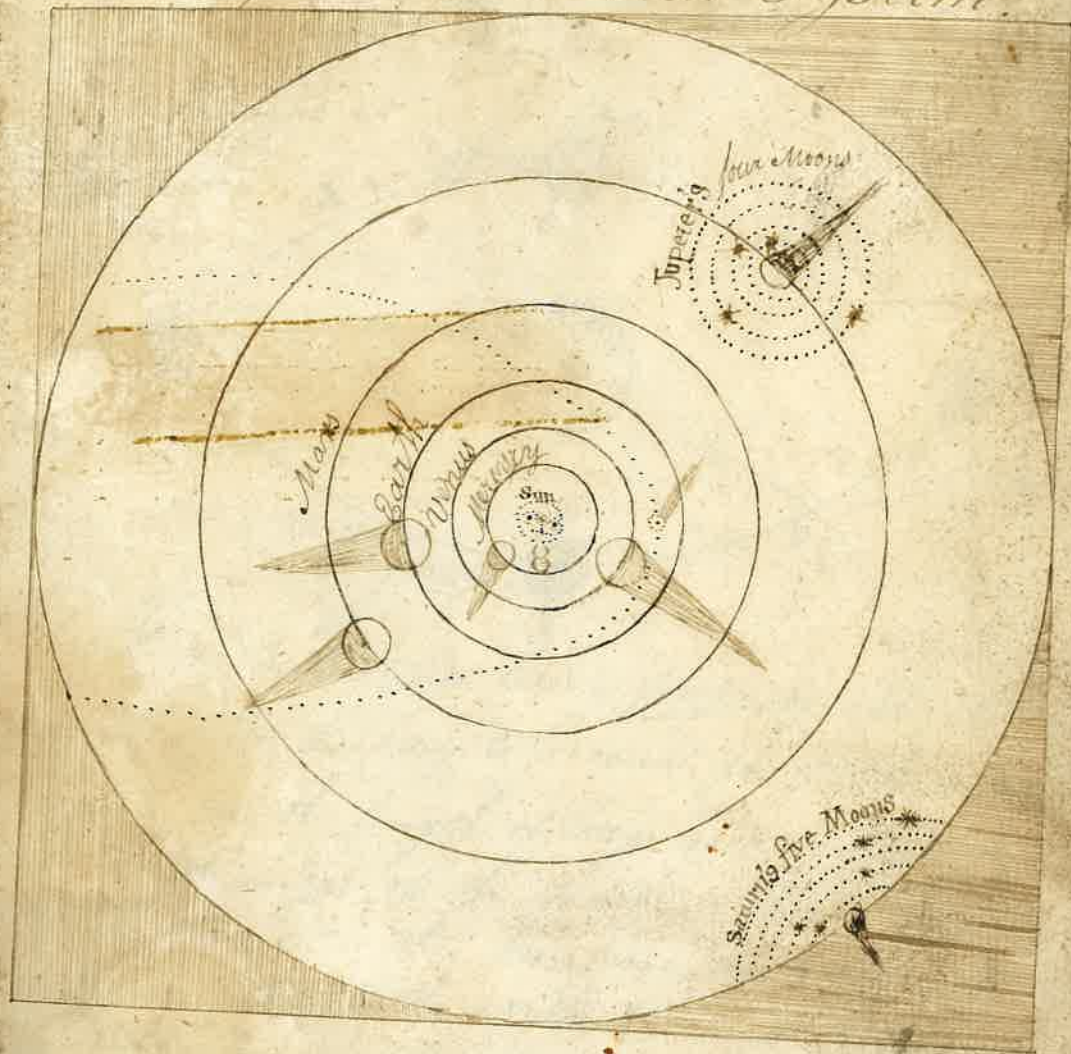


(43)

From London to Paris is about 220 m
from Paris to Madrid, about 700 m
and from Madrid to Lisbon about 2
which, divided by 5, gives 44, 140, and
hours respectively.

Michael Watts
1837

The Copernican or Solar System.



Geographical Figures

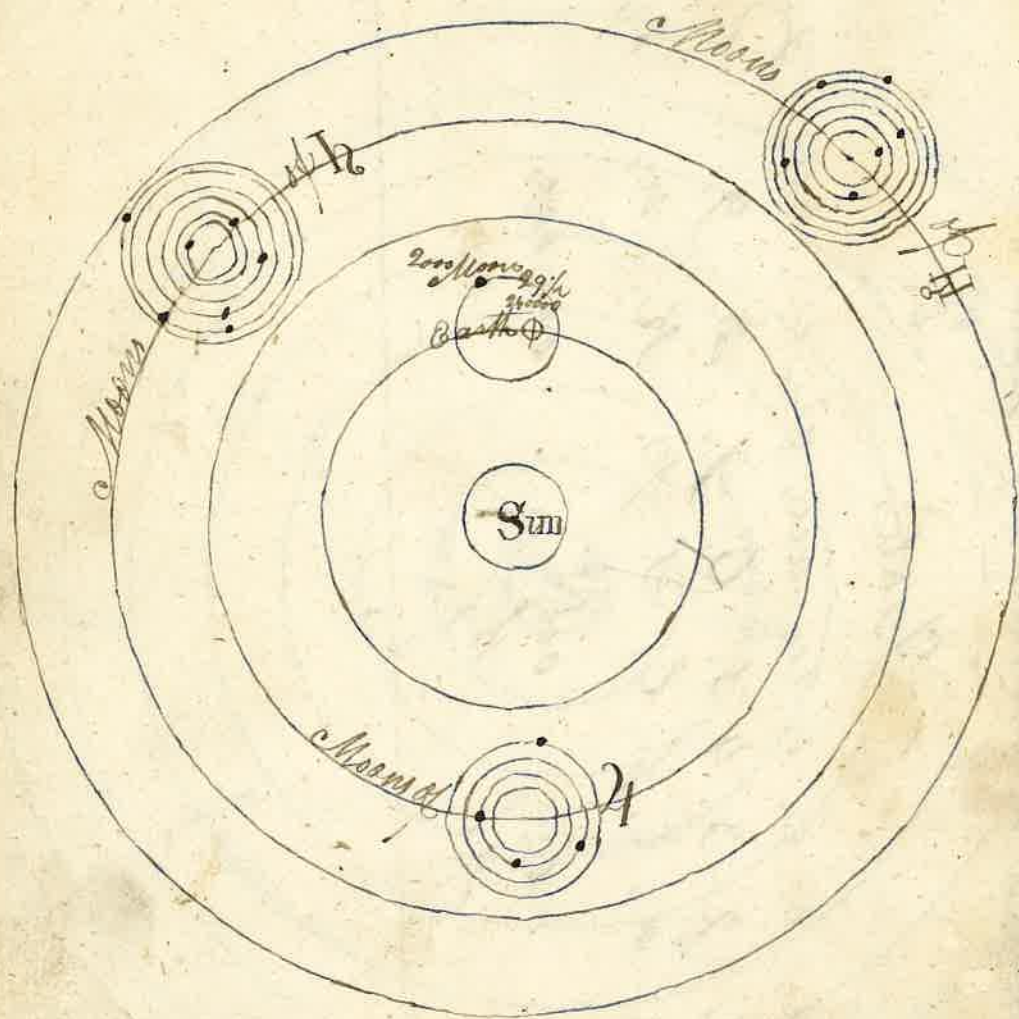
Fig. 11 Stars or stars as they appear to us (see page 202)



Earth

of the 32 constellations, the chief are { Orion, Sirius, Antares, &c. }
 See page 66.

Fig 5th Moons, Satellites, or Secondary Planets



opposition or full

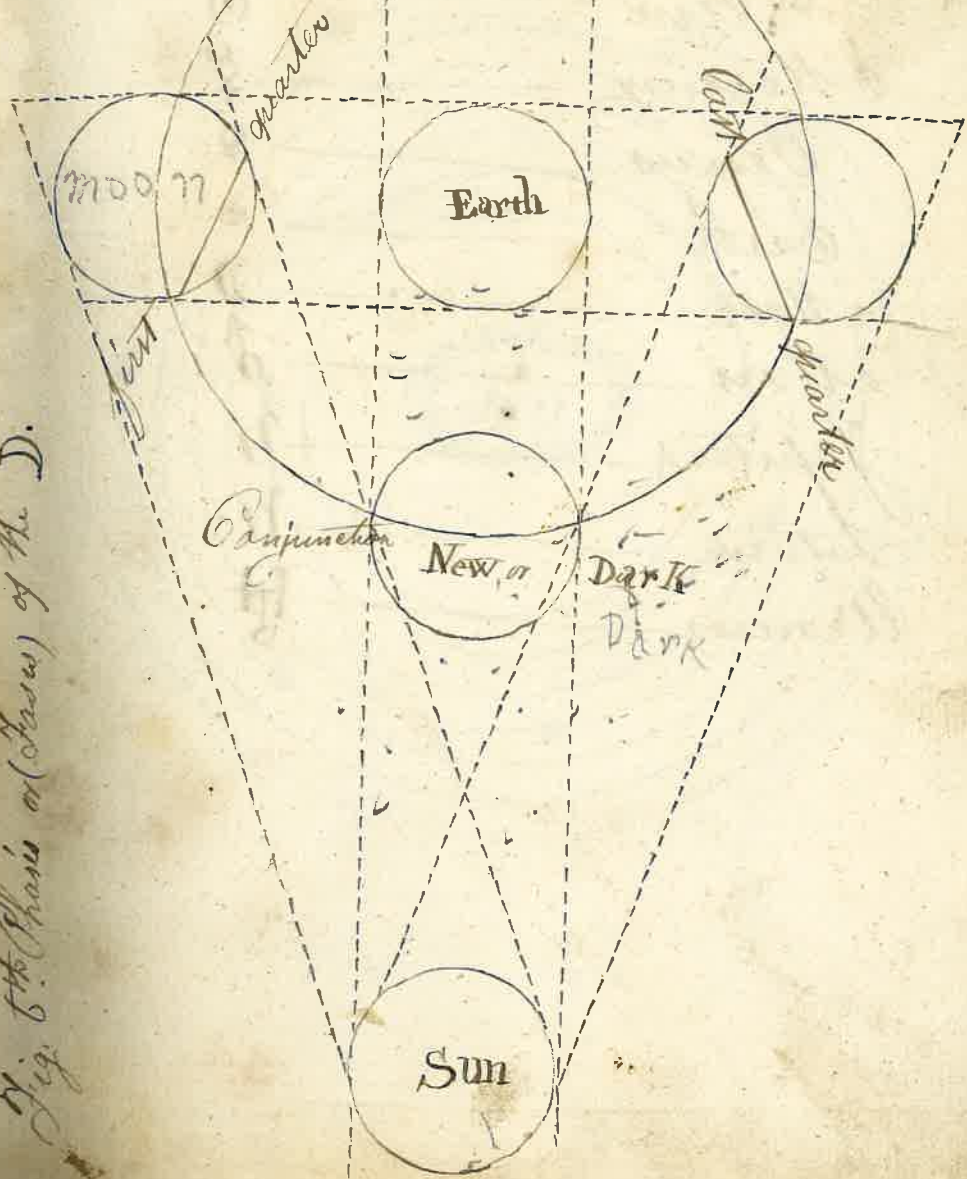


Fig 6th Phases or (Aspects) of the M.

To make a Scale of Miles to any
Map.

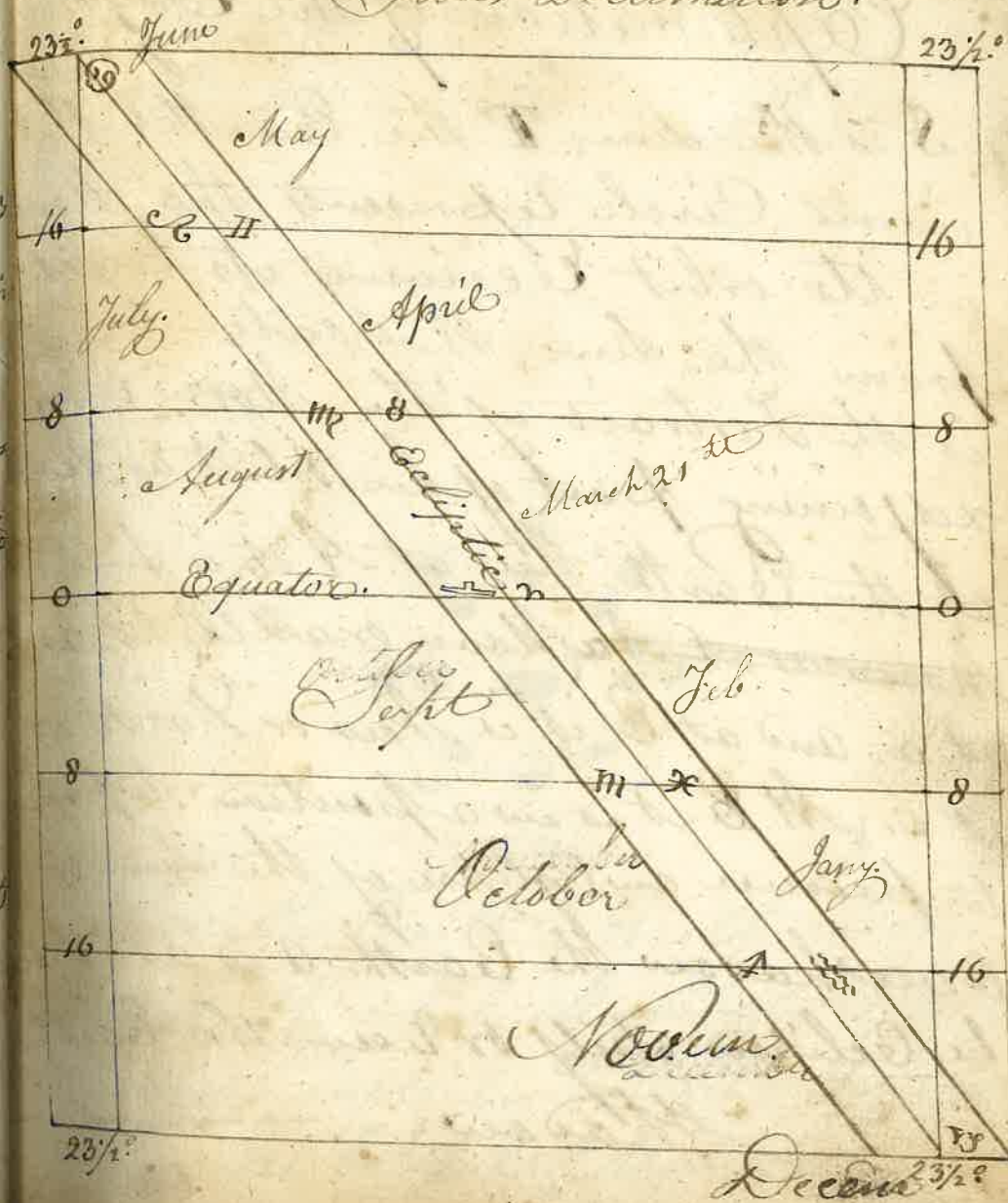
Take any distance from the Map, & lay
it on a line; this line will contain
the no of miles that w^d result
by multiplying the degree correspon-
ding to the distance taken by 69^{1/2}
then divide the line into tens.

$$\begin{array}{r} \text{Suppose } 10^{\circ} \\ \underline{69\frac{1}{2}} \\ 695 \end{array}$$

695 | | | | | To be divided into 9 parts
nearly



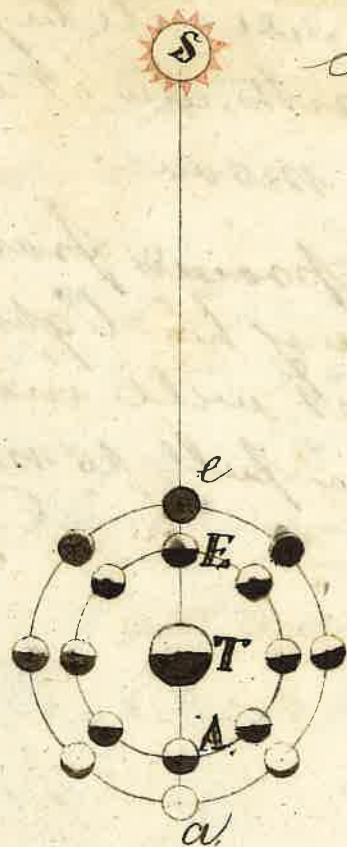
Sun's Declinations.



Explanation of the Engraving
 S is the Sun; T the Earth; the
 inner Circle represents the Moon
 in its orbit receiving its light
 from the Sun. The outer Circle
 is the Portrait of the Moon in
 adjoining part of her orbit as seen
 at the Earth, thus at A it is full
~~Moon as at A Moon or all light as~~
 at a, and at E it is New or Dark as
 at e. At B it is in a position to
 to produce an Eclipse of the Sun, or
 overshadow the Earth. and at A
 be eclipsed itself or receive the Earth's
 shadow.

The

Sun,



When the Earth is exactly in the
 Middle the whole illuminated side of
 the Moon will be towards the Earth
 & it will be full Moon —

The Different Sorts of Calendars that have been used in the West are.

1. Julian's
2. Roman's
3. The Julian (or the Style)
4. The Gregorian (or the Style)
5. The French Revolution's
6. The Julian's Commencement, A.D. 1582;

Months beginning from March; as to the use of Days in each Month.

Months differ for Day -

March	31	30	29	30
April	30	31	30	31
May	31	30	31	30
June	30	31	30	31
July	31	30	31	30
August	31	30	31	30
September	30	31	30	31
October	31	30	31	30
November	30	31	30	31
December	31	30	31	30

Answers to the Questions on the Map of the World. By Michael Wall.

1. It is ninety degrees from the equator to each pole.
2. Cape Horn runs twenty-one degrees more to the Southward than the Cape of Good Hope.
3. The Mediterranean lies between Europe and Africa, having also the coasts of Asia at its eastern extremity, and being connected with the Atlantic Ocean by the Strait of Gibraltar.
4. Madagascar is in the Indian Ocean, near the eastern coast of Africa, from which it is separated by the channel of Mosambique.
5. Amsterdam Island is near the 40th degree of South's latitude.
6. The Bay of Bengal lies between Hindoostan and the Birmar empire.

7. *N. Heclena* is in the South Atlantic Ocean
8. Arabia is on the south-west of Persia, and Thibet on the east.
9. The Island of Disolation lies under a meridian, that is, Twenty degrees east from Greenwich.
10. The Sandwich Islands are in the western hemisphere of the maps.
11. *Nava Zembla* is in the northern frozen sea.
12. West longitude ends at 180 degrees, and the Friendly Islands are between 140 and 180 degrees of west longitude; and the Society Islands are between 140 and 180 degrees.
- The Friendly Islands, therefore, are more westerly than the Society Islands.
- The remainder of Question the 12th is above *

* In regard to the New Hebrides, they are in 165 degrees east longitude, from Greenwich; but in regard to the Society and Friendly Islands they are still more westerly.

The Caspian sea is situated on the western side of Asia, with Tartary on the east, and Persia on the south.

Cape St. Roques, the eastern point, is in 35 degrees of west longitude.

More in the northern.

America is the largest.

By the Atlantic Ocean.

Fox's Islands stretch from North America towards Kamtschatka

19. Socotra is in 53 degrees, and the Isle of France in 56 degrees east longitude.

The eastern parts of the continent is only 51 degrees.

20. The equator passes over the island of Sumatra.

21. Forty-five degrees.

22. No.

23. Hudson's and Baffin's Bay.

24. 78 degrees west.

25. Easter Island is in longitude 110. west and in latitude 27. south, in the South Pacific Ocean.

26. To the east of the Straits of Magellana.

The northern point of Nova Zembla is in latitude 76.

East of Florida and north of Cuba, under the tropic of Cancer.

29. It extends from 50 to 80 degrees of west longitude, and is $30 \times 69\frac{1}{4}$ miles, or 2077 miles broad.

Bounded on the east by France, and on the south by Spain.

With Arabia on the east, and Africa on the west.

Rio de la Plata.

The Island of Cuba is more northerly than St. Domingo.

Alaska in 165 degrees west.

South-west by New England, and on the
north-west by the river St. Lawrence.

230 In the Gulf of St. Lawrence, in 45° of north
latitude, and 63° of west longitude.

231 Latitude 40° north, and longitude 73° east.

232 On the north side of Cuba, under the Trop^{ic}
of Cancer.

233. Jamaica, and situated on the south side

234. St. Domingo is in the middle, Jamaica
the west, and Porto Rico on the east.

235. Near the north-west coast, in the latitudes
Queen Charlts Island

236. Notha Sound is on Vancouver's Island
the north-west coast.

237. On the southern extremity of Greenland

238 Into Virginia and Pennsylvania

In Behring's Straits, near the arctic circle.
To latitude 69° , within the arctic circle.

Into the Carribean sea.

The Slave Lake runs into Mackenzie's River.

The Slave Lake is the most northerly.

The Map of South America.

In south latitude 56° .

The Falkland Islands.

The Amazons.

The Andes.

The northern part next the West Indies.

Quito is in 78° degrees of west longitude
under the equator.

Lima is in 13° degrees of south latitude, and
in 77° degrees of west longitude

Potosi is in 20° degrees of south latitude,
and 67° degrees of west longitude.

250. Buenos Ayres is on the South Side of
the River La Plata.

251. Paramaribo and Cayenne.

252. The northern part of the west coast
South America, formed by the Isthmus
of Darien.

253. Rio Janeiro, under the Tropic of Capricorn

254. Eighty degrees west longitude.

255. By the Straits of Magellan.

256. Trinidad is under the parallel of 10
north latitude.

257. In nine degrees.

258. St. Jago.

259. Chile is situated between the 40th and
50th degree of South latitude, on the
west coast of South America.

260. Assumption is on the river Paraguay.

261. On the coast of Terra Firma, near the Gulf of

262. Porto Bello is on the north coast of Isthmus
of Darien.

263. The Gallapagos are under the equator, opposite
the north coast of Peru.

264. Cape St. Mary and Cape Antonio. (N. 2.)
On the eastern side.

265. In the centre of South America, bounded
On the east by Brazil, on the west
by Peru, on the south by Paraguay
and on the north by Guiana, Sur
Grenada, &c.

266. On the east side of Terra del Fuego.

267. It is the north-west point of Brazil.

268. Baldivia,

South latitude 38°
West long. 74°

269. A Salcedo,
South lat. 14°
West long. 39°

270. Nicaragua,
North lat. 10°
West long. 85°