

Geoffrey Bell

~~Observed~~

Observing

Journal

1926 - 1932

JANUARY 1926

15th DAY



Newton's Second

\dot{L}^T

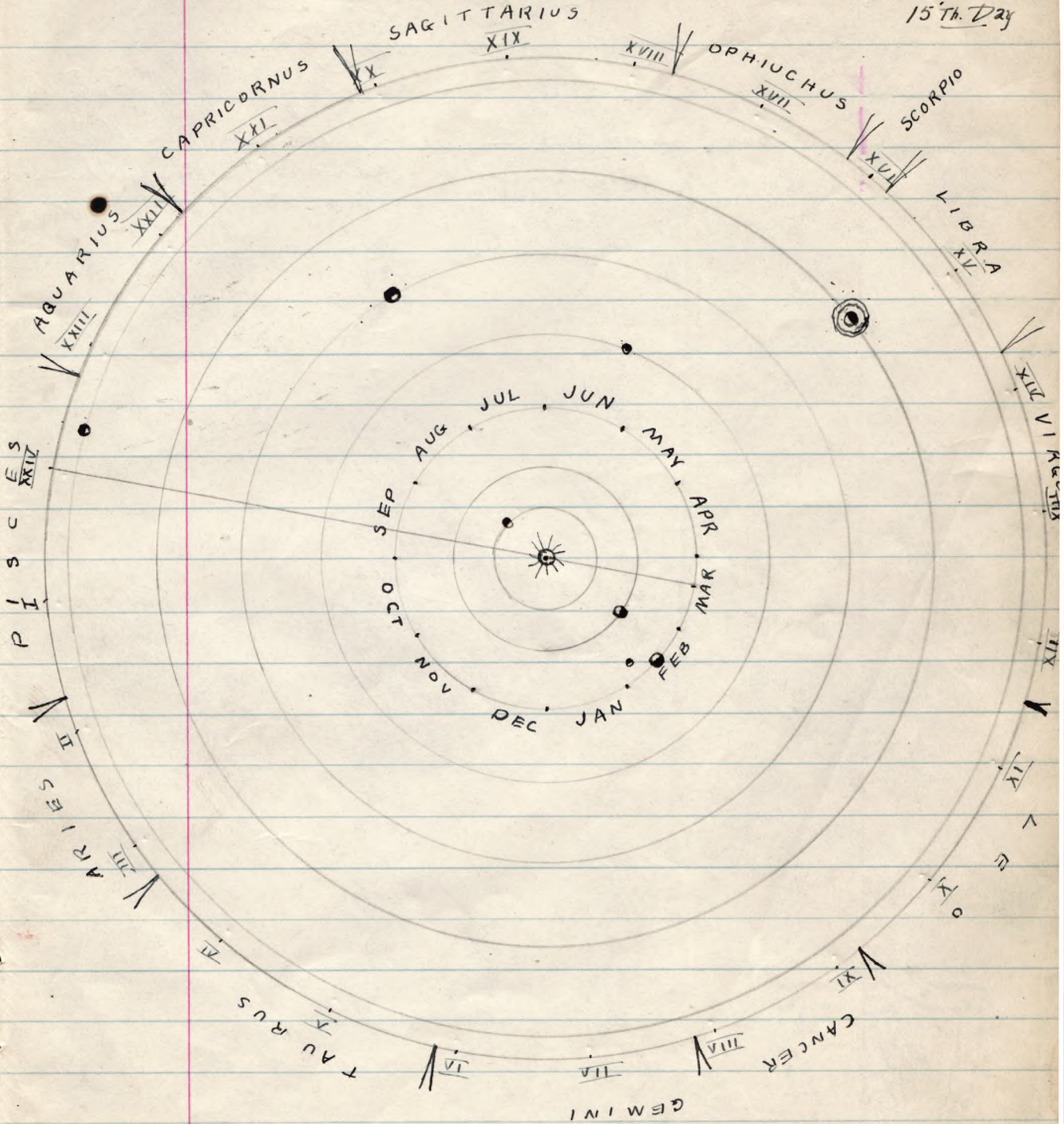
$\dot{\theta} \dot{\theta}^2$

$u_2 u_3$

LIBRARY

FEBRUARY 1926

15th Day

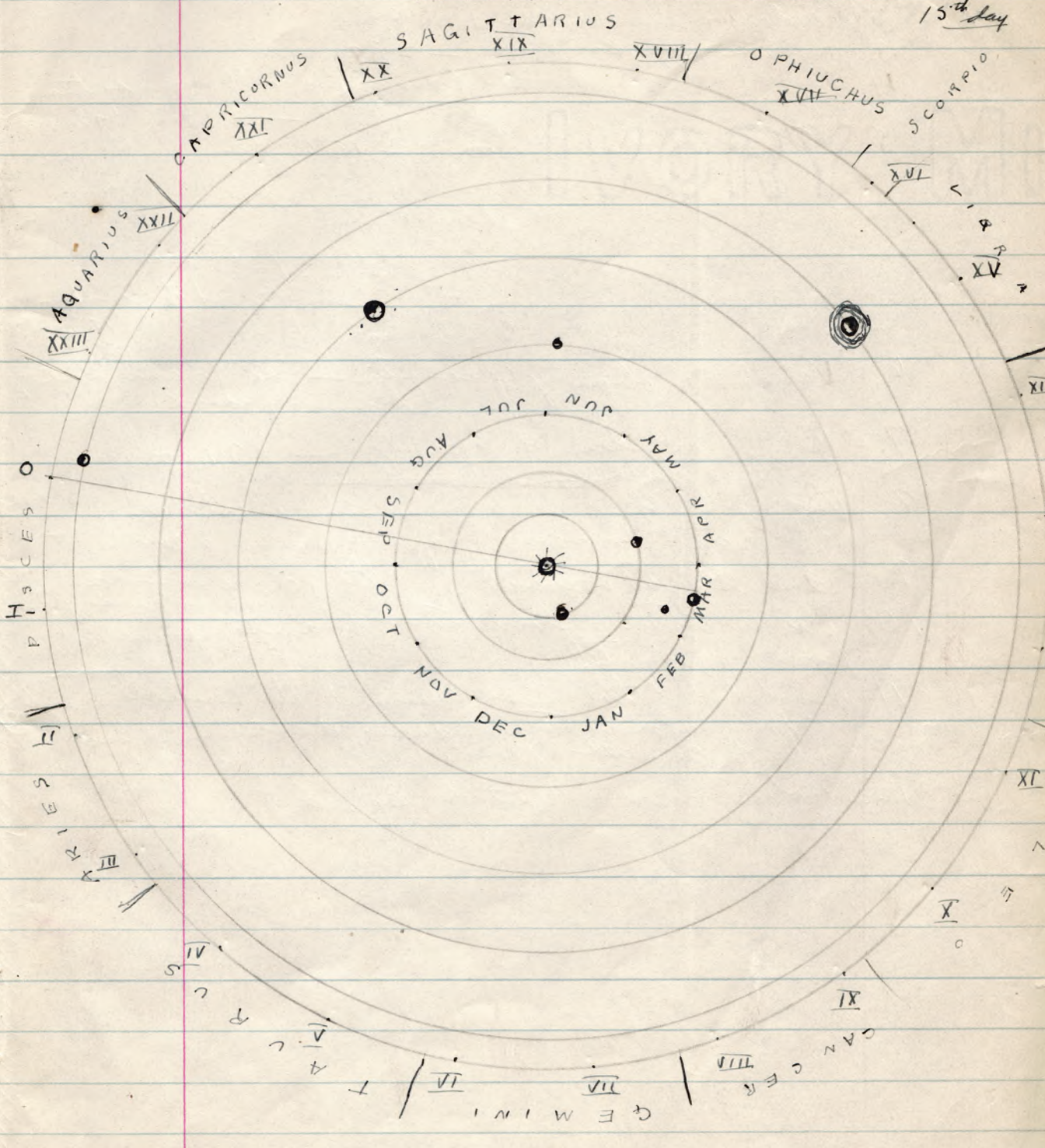


Solar Corona

- 1 irregular or polar - short streamers near the poles.
- at sun-spot maxima
- 2 equatorial - regular inner corona & at the equator on each side are long curved streamers of great length
- 3 intermediate - four streamers half way between poles & equator - resulting in square corona.

MARCH 1926

15th day



Twelve movements of the Earth

1. Rotation on axis — 23 hrs 56 min
2. Revolution around sun $365\frac{1}{4}$ days
3. Revolution of earth axis — 25,900 yrs
4. Revolution around center of gravity of earth moon system — 27 days 7 hr 43 m.
5. Nutation of earth's axis — $18\frac{3}{5}$ yrs.

• pole of ecliptic

• P₂ pole of earth's axis
Line of crest to crest is
 $18\frac{3}{5}$ yrs.

6. Variation of obliquity of ecliptic — earth's axis is slowly becoming erect.
7. Revolution of line of apsides — 21,000 yrs.
~~a variation of eccentricity.~~
8. Variation of eccentricity — the elliptical orbit of the earth is slowly approaching a circle.
9. The slight variation of the pole around a given mean point.
10. Perturbations from other planets principally Venus & Jupiter.
11. Revolution of the sun around the center of gravity of the solar system causes displacement in actual & annual revolution of the earth.
12. Motion onward through space.

APRIL 15th 1926

SAGITTARIUS
XIX

CAPRICORNUS
XX
XXI

OPHIUCHUS
XVII
SCORPIO
XVI

AQUARIUS
XVII
XXIII

PISCES
I

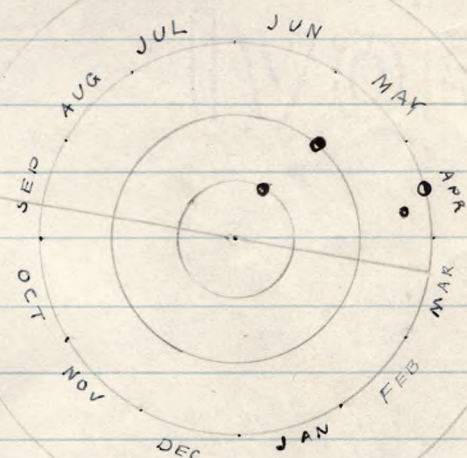
PISCES
II
A

TAURUS
II

TAURUS
III

GEMINI
I
II

GEMINI
III
IV



MAY 15, 1926

SAGITTARIUS XIX

OPHIUCHUS XXII

SCORPIUS XVII

LIBRA XV

XIV

XIII

XII

XI

X

IX

CANCER VIII

GEMINI VII

TAURUS VI

ARIES III

PISCES II

AQUARIUS XXI

CAPRICORNUS XX



JUNE + 1926

In Libram



CC

JUNE 15, 1926

SAGITTARIUS XIX

XVIII

OPHIUCHUS XVII

SCORPIO

LIBRA XV

XIV

XIII

XII

XI

X

IX

VIII

VII

GEMINI VI

V

TAURUS IV

ARIES III

PISCES I

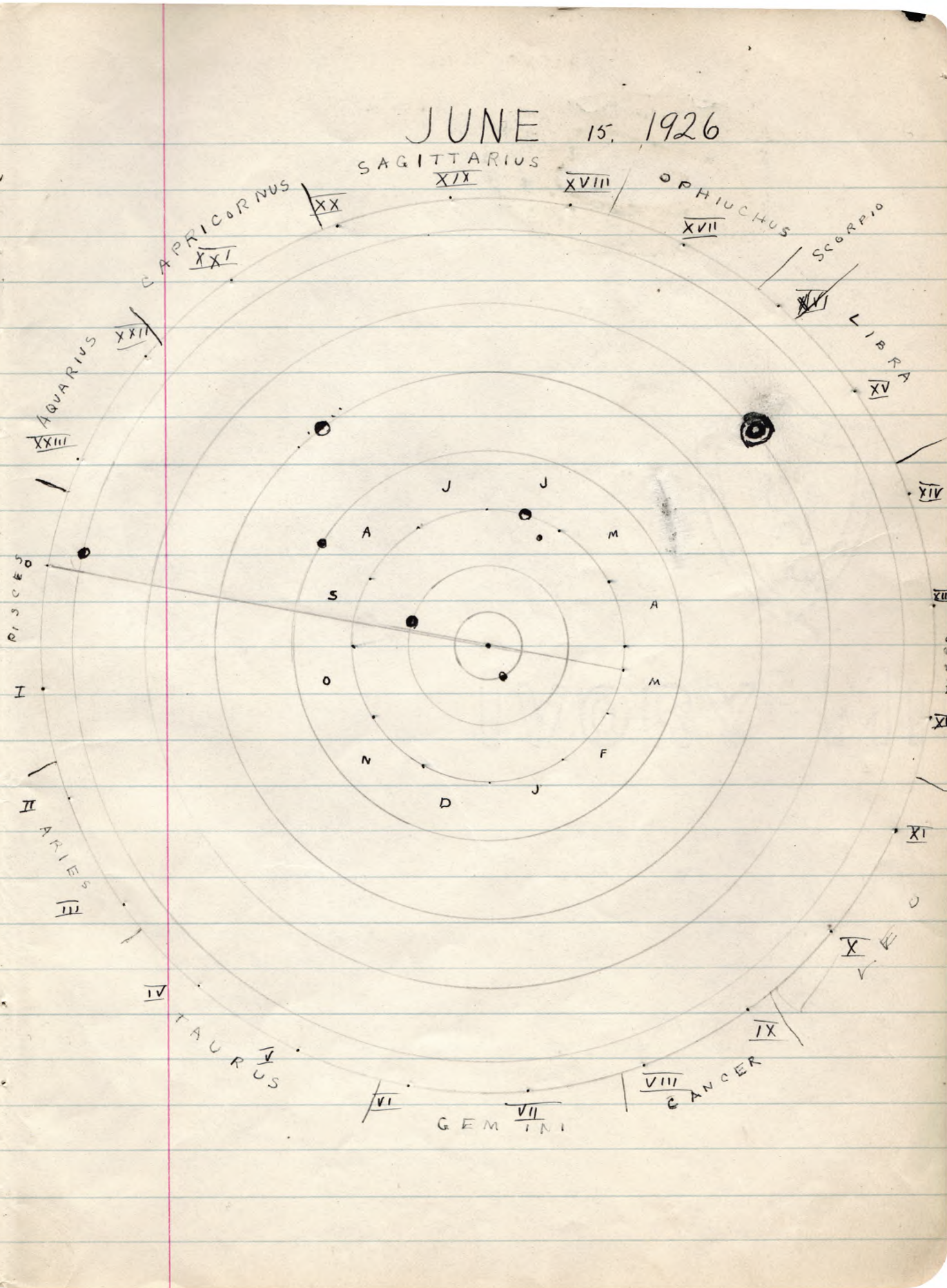
XXIII

AQUARIUS XXII

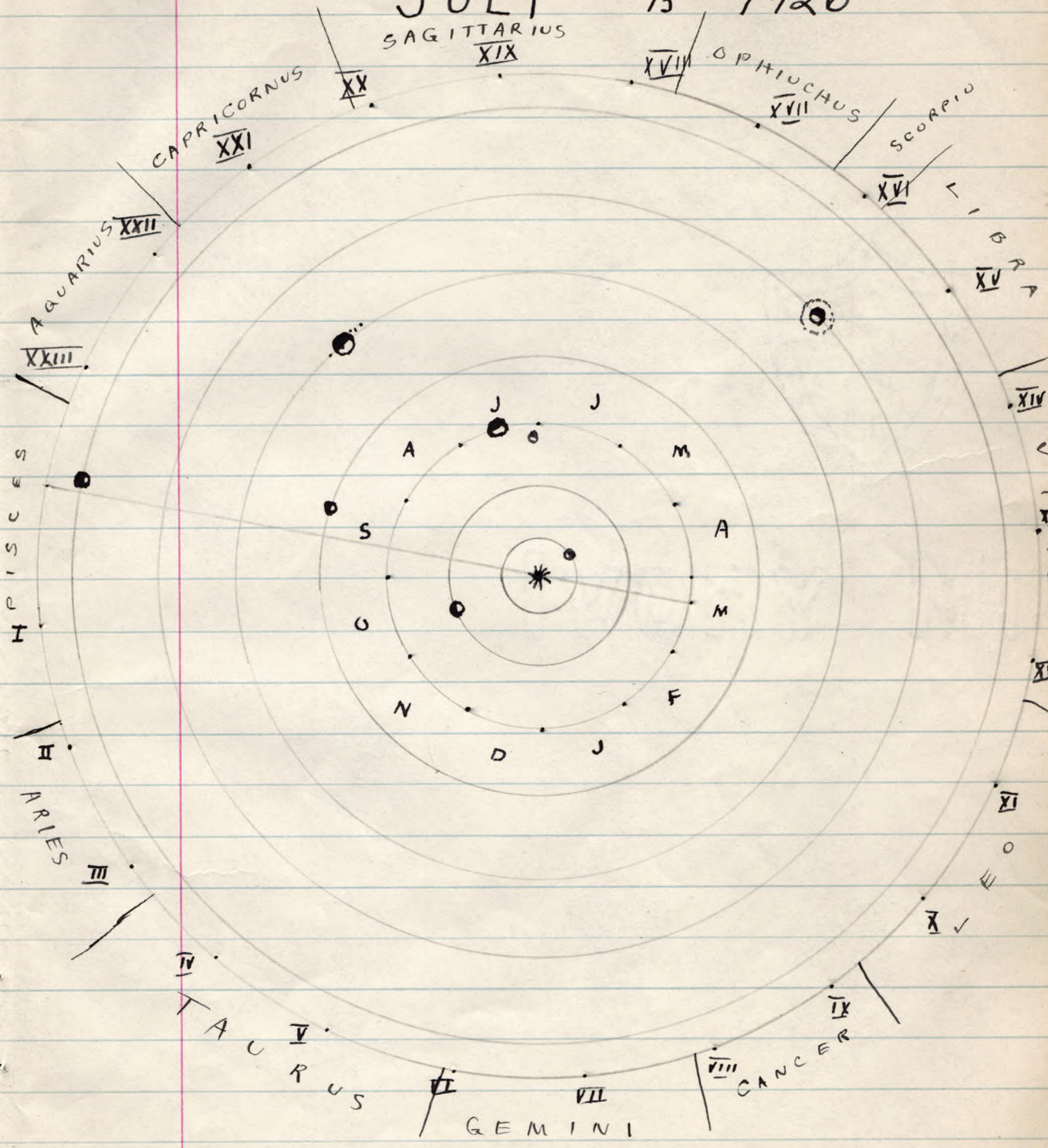
XXI

CAPRICORNUS XX

XX



JULY 15 1926
SAGITTARIUS XIX



AUGUST 15, 1926

SAGITTARIUS XIX

CAPRICORNUS XX
XXI

OPHIUCHUS XVII
SCORPIO XVI

AQUARIUS XXII
XXIII

LIBRA XV
XIV

PISCES

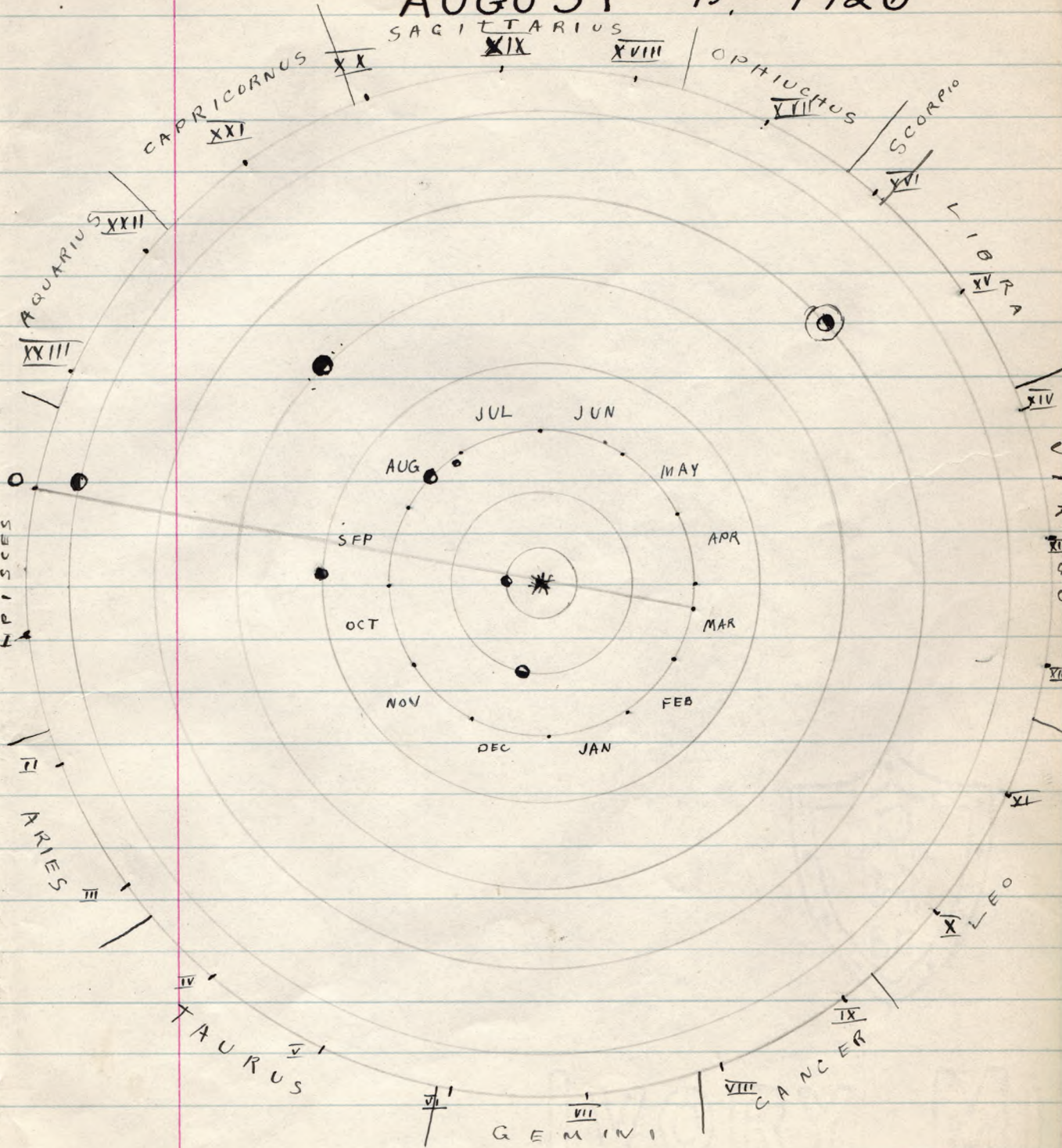
II
ARIES III

IV
TAURUS V

VII
GEMINI

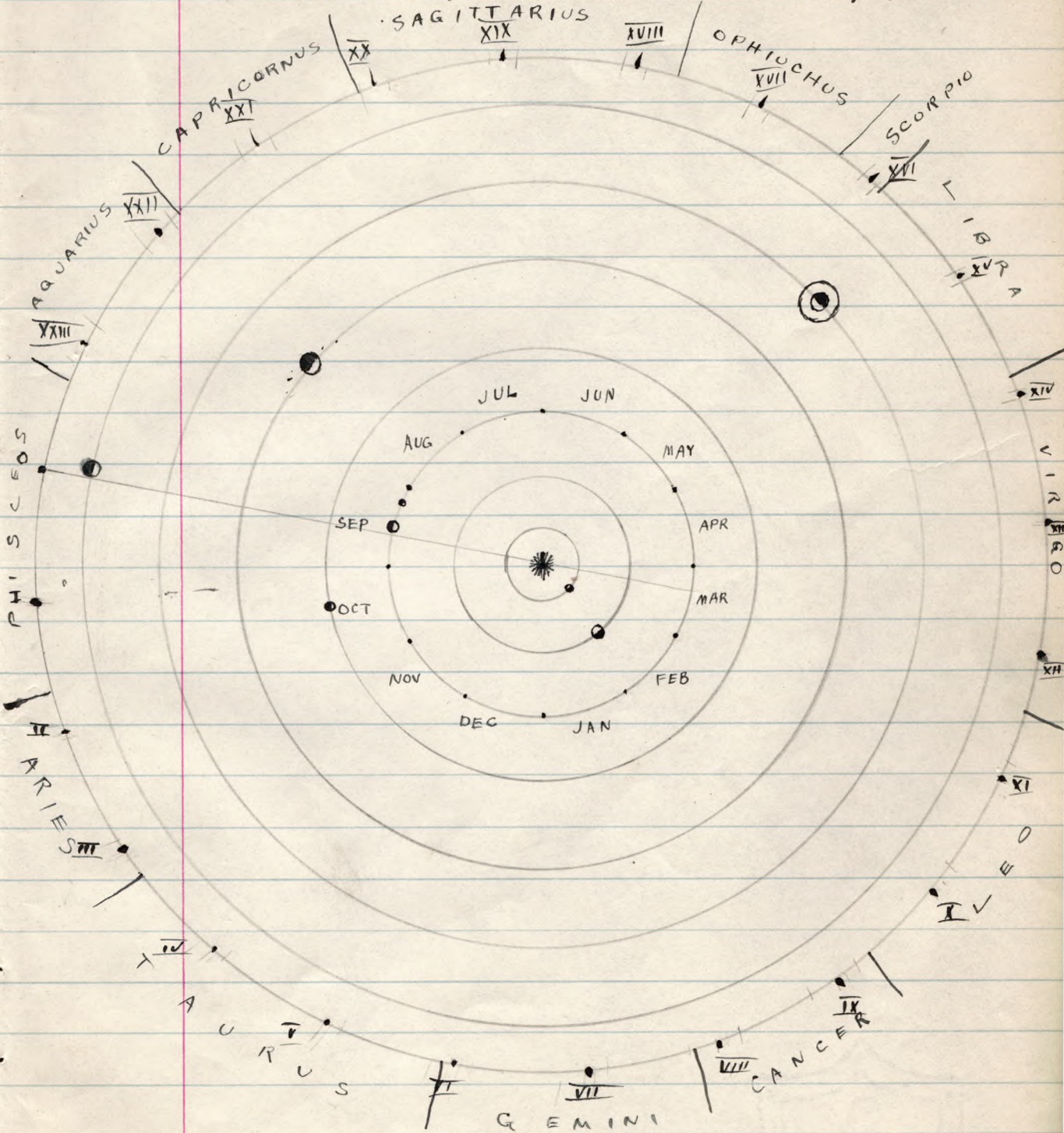
VIII
CANCER IX

X
LEO XI



SEPTEMBER 15, 1926

SAGITTARIUS



OCTOBER

15. 1926

SAGITTARIUS

XX

XVIII

OPHIUCHUS
XVII

SCORPIO
XVI

LIBRA
XV

CAPRICORNUS
XXI

AQUARIUS
XXII

XXIII

PISCES
I.

ARIES
II.

XIV

Taurus
V

VI

GEMINI

VII

VIII

CANCER

IX

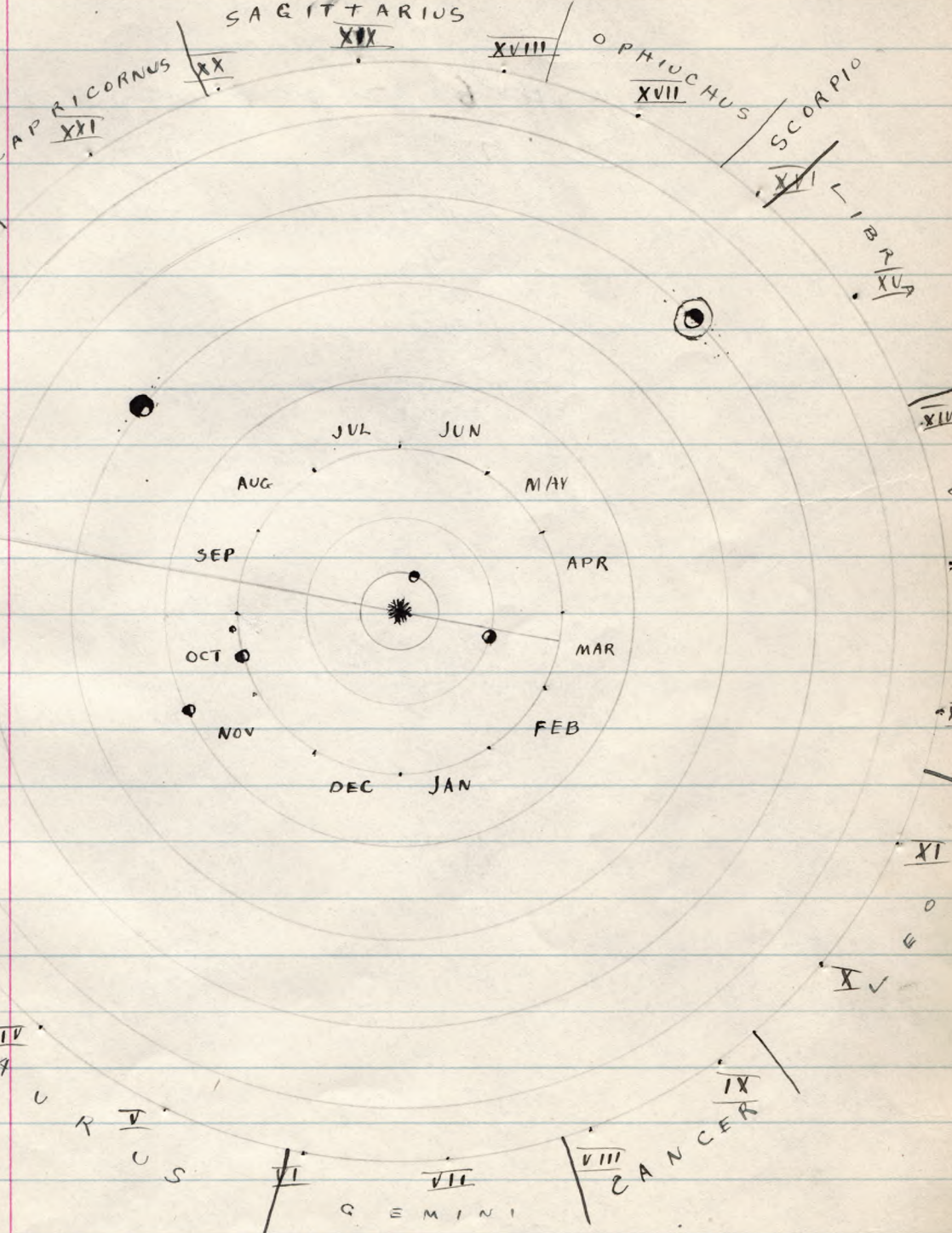
XV

XI

XII

VIRGO

XIII



OCTOBER

Castor — Dr. H. N. Russell — Nov. 27/26

A & B 6" \approx ϕ 2.9. colour - both greenish white

C 73" — 9

A is 24 \times B 11 times ~~more~~ luminous as the sun.

C $\frac{1}{30}$ \times sun.

all spectroscopic binaries

A — period of nine days.

B — three days

C — 19 hrs 32 minutes.

NOVEMBER

15, 1926.

SAGITTARIUS

OPHIUCHUS

SCORPIO

CAPRICORNUS

AQUARIUS

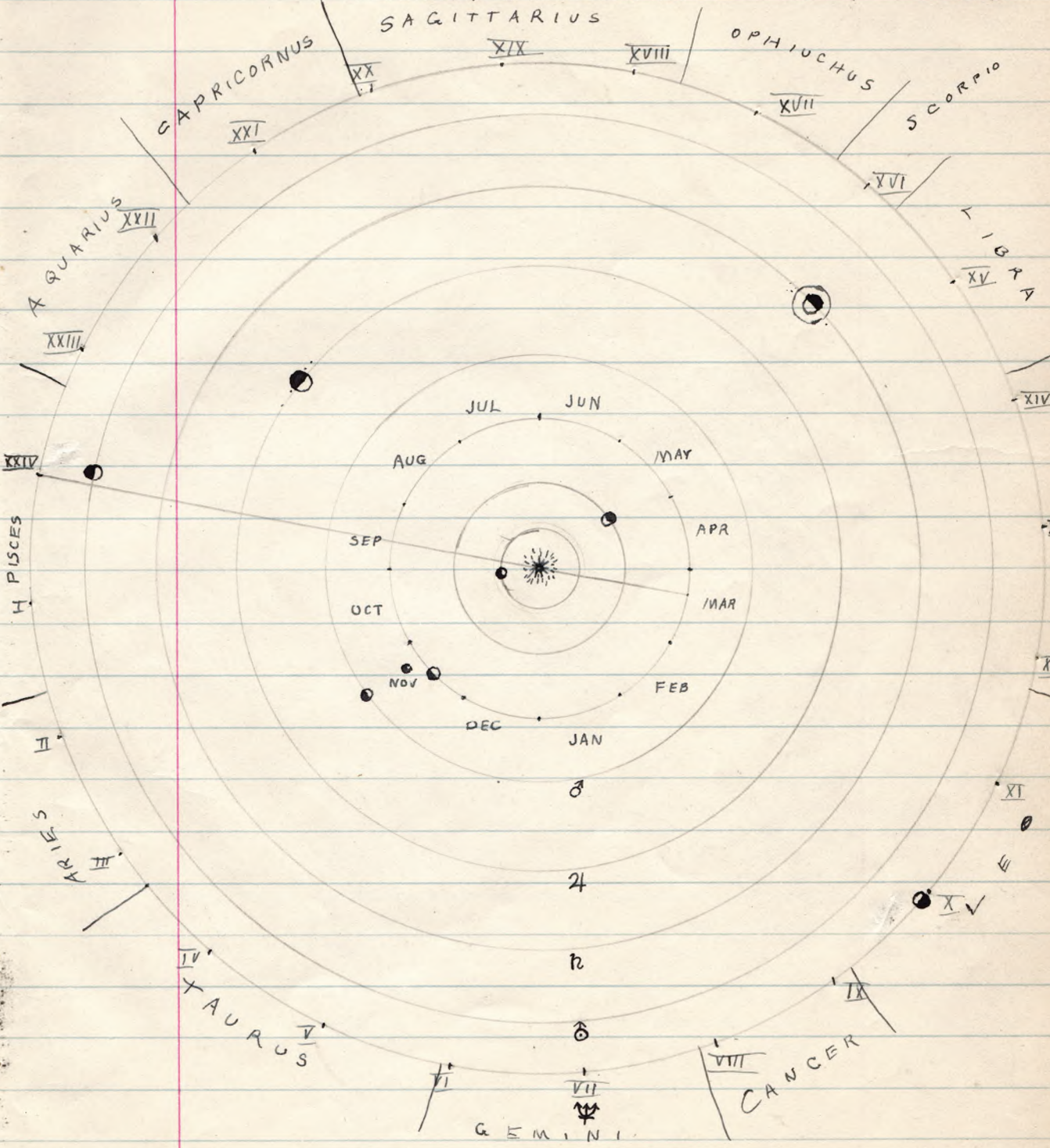
PISCES

ARIES

TAURUS

GEMINI

CANCER



DECEMBER

15, 1926

SAGITTARIUS

OPHIUCHUS

SCORPIO

CAPRICORNUS

AQUARIUS

PISCES

ARIES

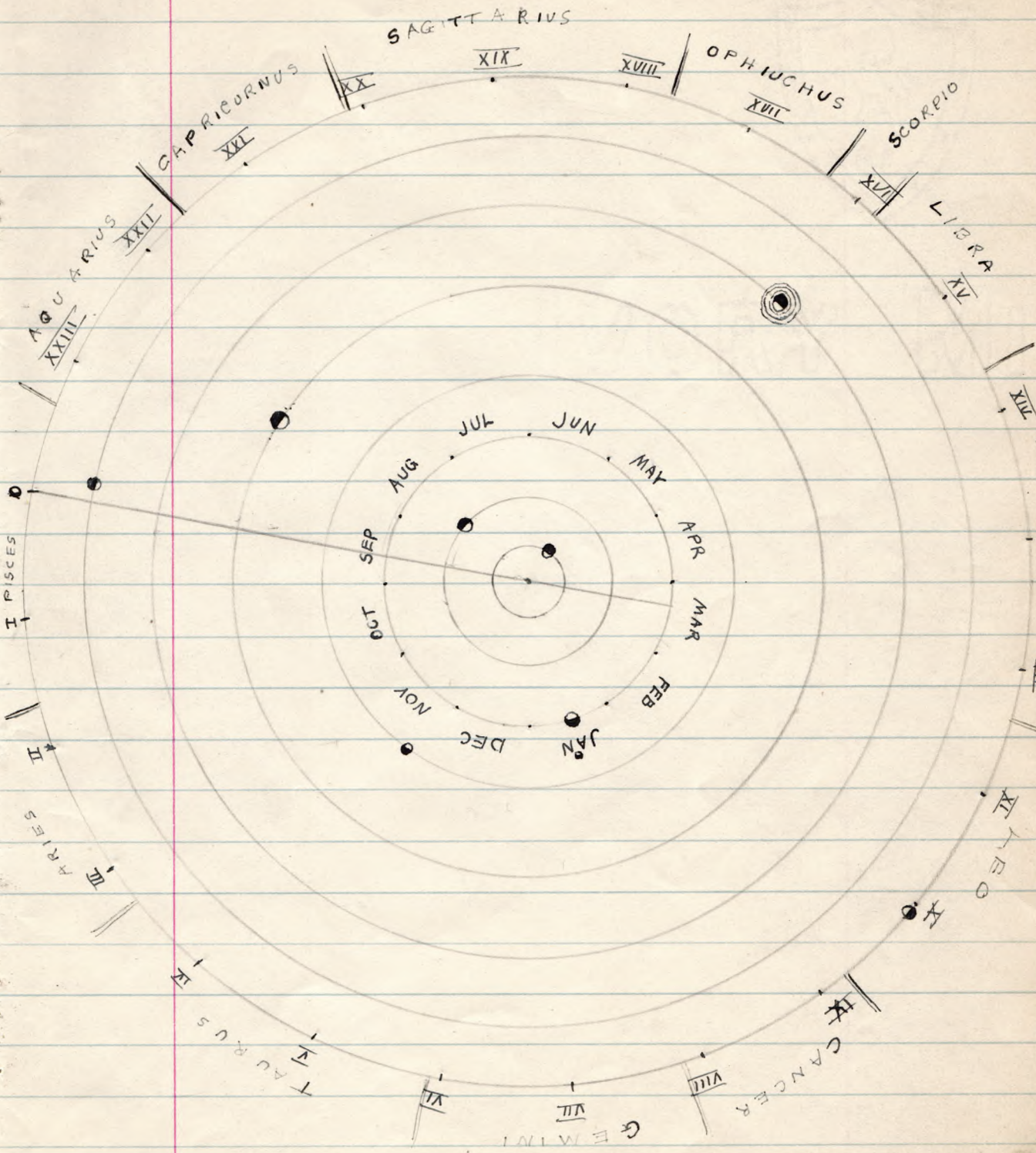
Taurus

GEMINI

CANCER

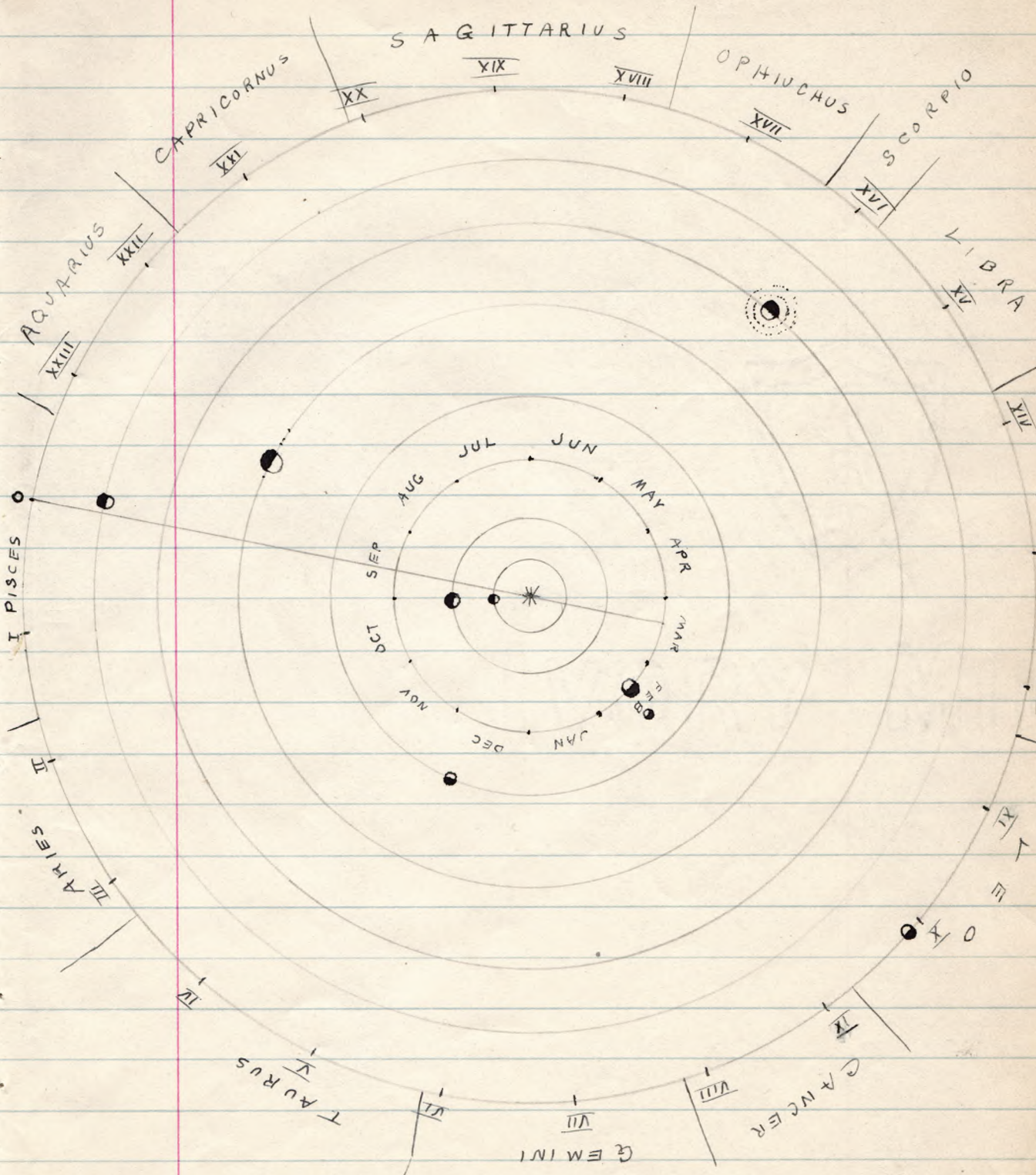


1927



1927

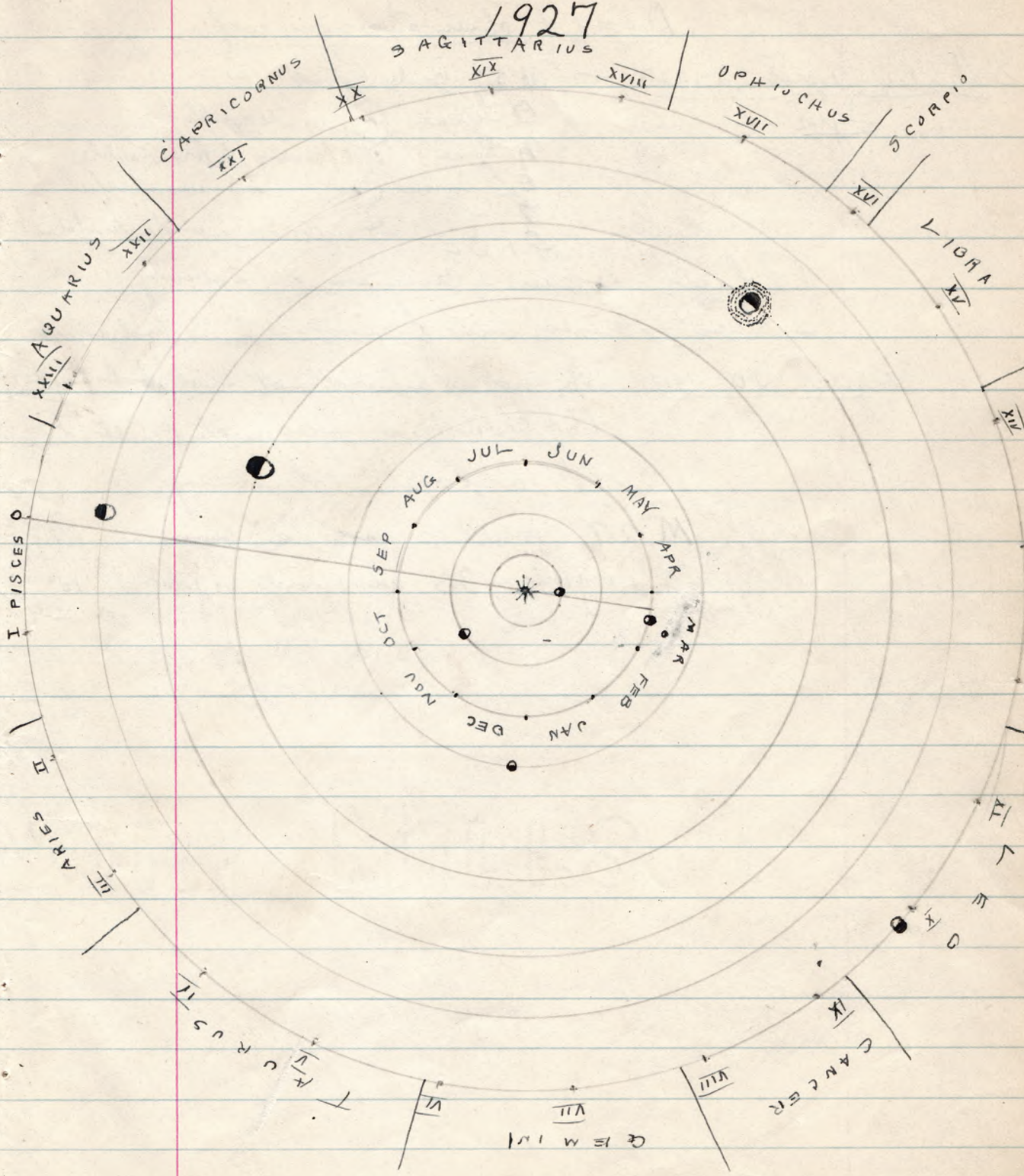
1927



1927

1927

SAGITTARIUS



1927

Diary of observations on roof

Saturday April 23, 1927

Syra

M 57 quite distinct, θ
 θ Syrae \odot wide double.
 η Syrae \odot charming little double
 ϵ , ϵ_2 Syrae \odot " " wonderful
 δ_1 , δ_2 η δ_1 , δ_2 wide doubles.

Polaris \cdot \cdot (clear) γ Cassiopea \cdot (excellent)

Saturn - finest view of rings I have had as yet.

April 30 1927 Sky not so sharp as last Saturday.
but cloudless. Too much sun & still air
for accurate observing.

M 27 "Dumbbell nebula" prominent well.

γ Virginis - $3\frac{1}{2}$ very wide - probably 10"
or more.

1927

SAGITTARIUS
XIX

CAPRICORNUS
XX
XXI

XVIII

OPIUCHUS
XVII

SCORPIO
XVI

LIBRA
XV

ARQUARIOS
XIII

PISCES
II

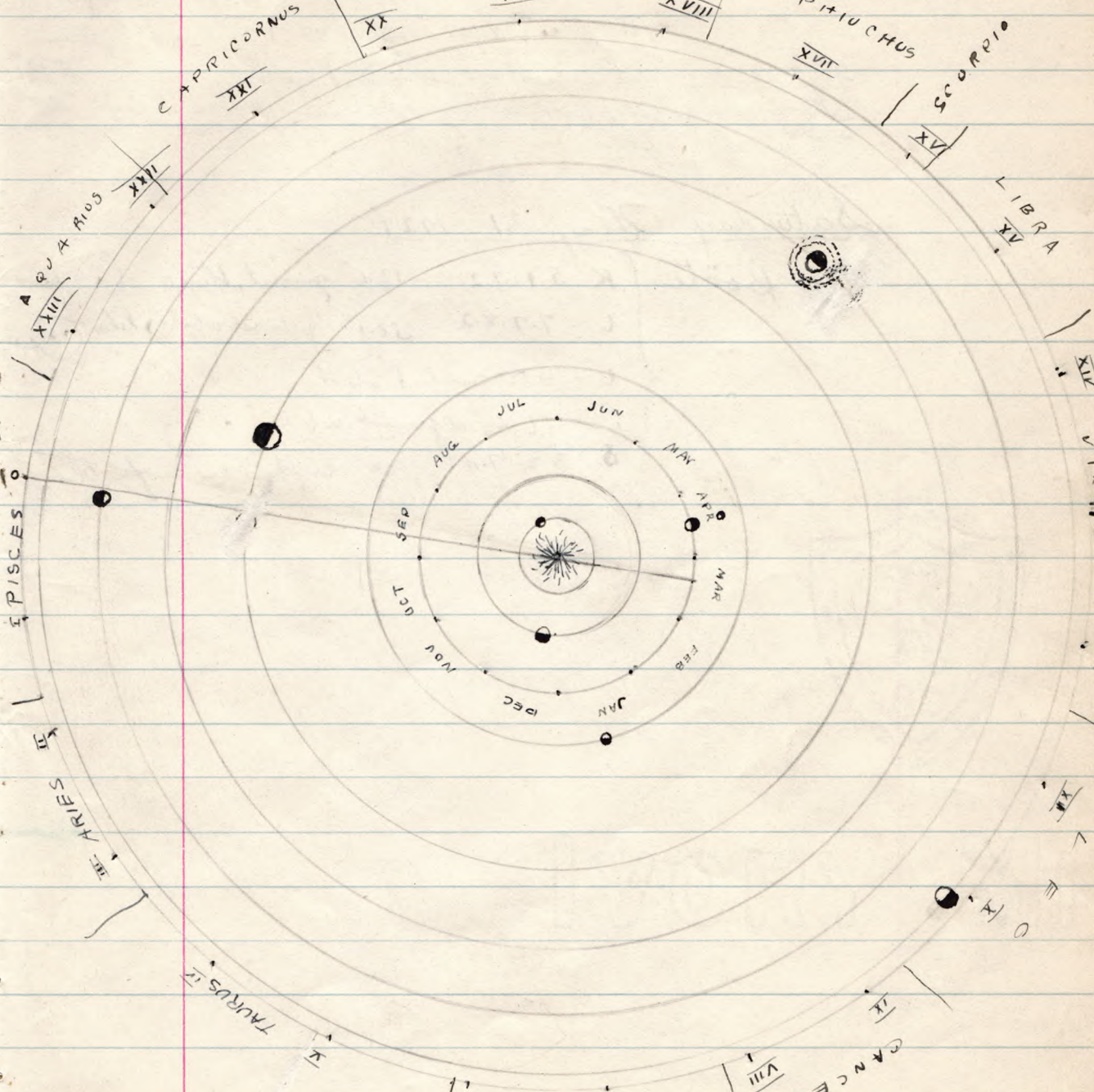
ARIES
III

TAURUS
IV

GEMINI
V

CANCER
VI
VII

VIII



1927

Saturday May 7, 1927

Boötes { ϵ - lovely binary (•) ^{the yellow} two highest partners
 ξ - (•) clear yellow, 34 6.3 - 2.6" ^{purplish-red Webb gives}
binary (Proctor) 7.2" probably only 3.9"
 π - (••) v. w. binary (Proctor) Webb - 5.8" - probably 9 or 10"

Clouds came up and sent me down at 1.00 A.M.
Saturn very clear, and surpassingly beautiful in a sky suffused with the light of a half moon.

Saturday May 21 1927

Boötes { K 5.1, 7.2 - 12.6" greenish, bluish (•) LOW P
 L 7.7, 8.2 - 38.1" yellowish white, lilac (••) L.P.
 θ - 4.12 couldn't do it
 μ 4, 6.5 100" greenish, white (••)
 δ 3.2 7.4 105" bright yellow - fine blue

1927

SAGITTARIUS XIX

OPIUCHUS XVII

SCORPIO XVI

LIBRA XV

VIRGO XIV

LEO XIII

IV

III

CANCER IX

VIII

GEMINI VII

VI

TAURUS V

IV

III

ARIES II

PISCES I

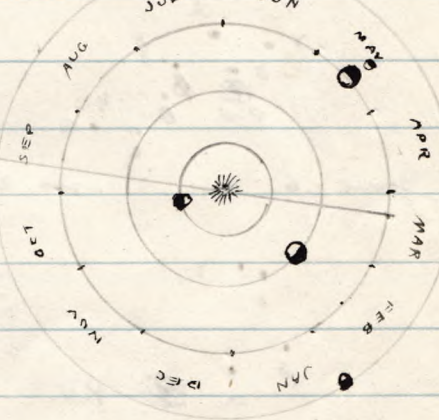
AQUARIUS XXII

XXI

CAPRICORNUS XX

XIX

XVIII

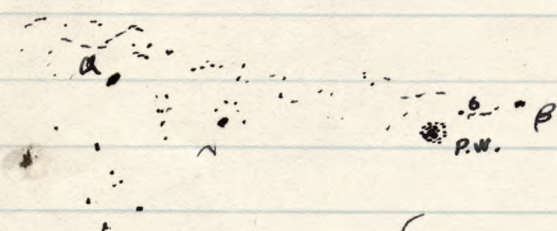


1927

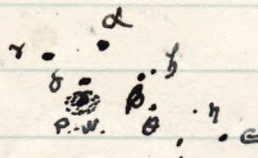
7291

Pons-Winnecke Comet June 1927

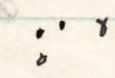
Thursday June 23 - in Cygnus
.8



Saturday June 25 - in Delphinus



Sunday June 26 - in Equuleus



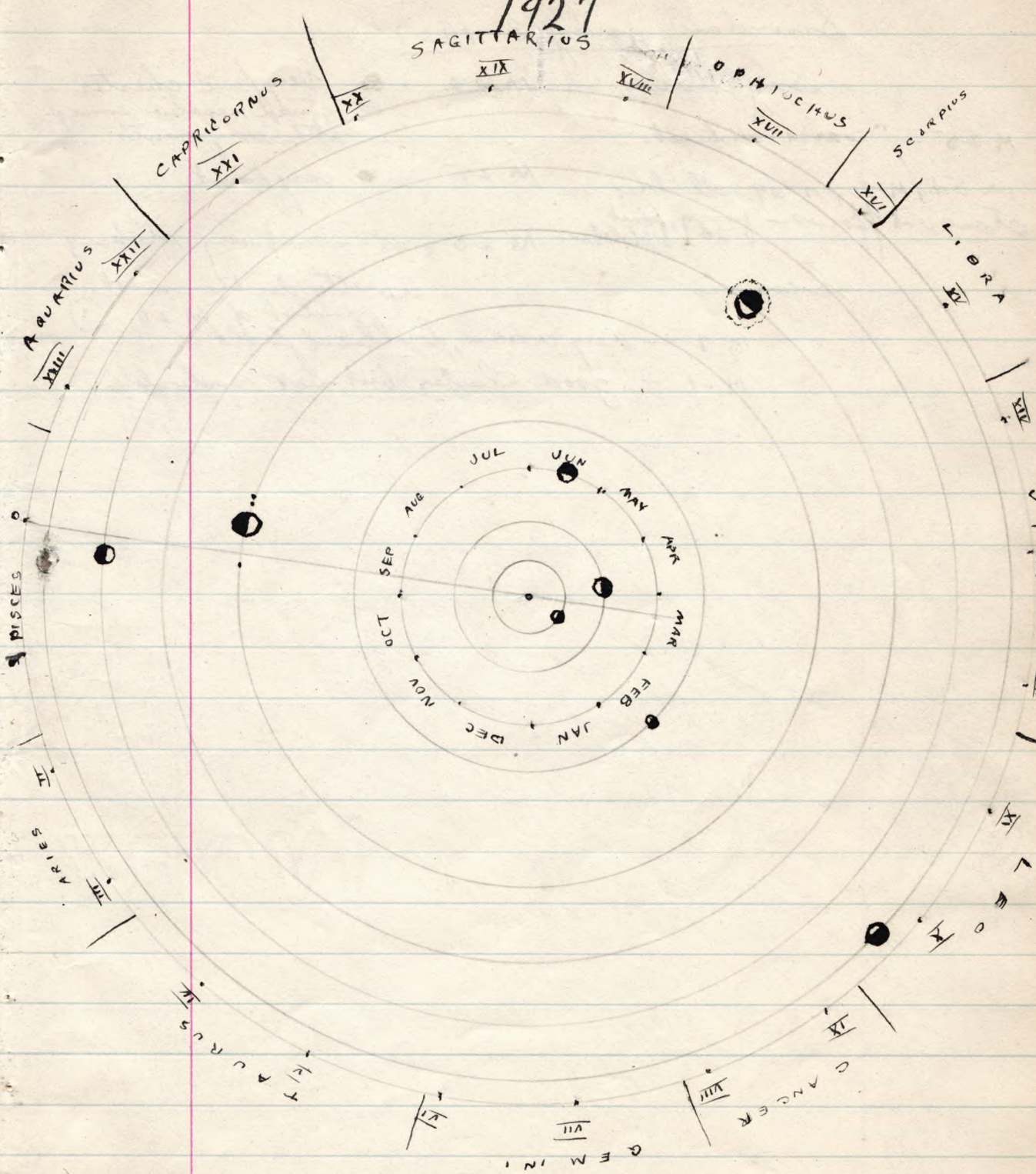
Monday June 27 - in Aquarius
P.W. - nearest ☉

Monday June 27 - in Aquarius



7651

1927
SAGITTARIUS



1927

Sunday July 3. 1927

Sagittarius - M 22 * very fine cluster
could resolve some of
the components.

M 25 - "coarse" distinct.

M 54, M 70, M 69 all like
stars out of focus - fuzzy, faint
blotches.

M 28 - • very faint

M 20 & 21 - not very striking

Scorpio -

A pretty double in the
midst of M 20 (i)

M 7 - Very coarse, brilliant field.

M 41 - good cluster but not resolvable.

1927

JULY 15

SAGITTARIUS

XIX

XVIII

OPHIUCHUS
XVII

SCORPIO
XVI

LIBRA
XV

AQUARIUS
XIV

CAPRICORNUS
XIII

PISCES
XII

ARIES
XI

T A U R U S
X

VII

GEMINI

VII

VIII

CANCER
IX

LEO
X



JULY 15

1927

Friday Aug 5 1927

H. S. Campus Excellent night for observing.
Jupiter best yet. Saturn, moon, double stars
and clusters.

γ andromeda \odot 3;5; 1946° 19.3"
Gold blue

Saturday Aug 6, 1927

H. S. Campus. Sky hazy. Capernicus
on terminator.

γ arietis 4.2, 4.4 - 359.9° 8.6
w-yw. \odot fine double

κ arietis - wide \odot 4.7-6.7

Saturday Aug 20

Front yard - Jupiter better still
wonderful.

Hercules - α Hercules - \odot Very V
Intense B. 4.6

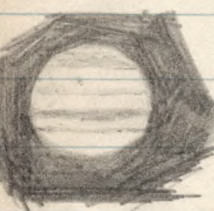
ρ Hercules \odot 3.6 grn.w. 4.6
grn. w. wide probably 10"

κ \odot 31" 5.6 γ ; δ γ ; γ \odot 40" 3.8, 8.2 ;

δ \odot 3, 8.1 26" 95. \odot 4.9.4.9
6".1 gr. y; redy.

100 \odot 13.8 Bl, w 5.9.5.9

PISCES
40



1927

Aug 15.

SAGITTARIUS

OPHIUCHUS

SCORPIO

LIBRA

VIRGO

XII

XI

X

CANCER

GEMINI

TAURUS

ARIES

PISCES

AQUARIUS

CAPRICORNUS

XIX

XVIII

XVII

XVI

XV

XIV

XIII

XII

XI

X



Aug 15

1927

1927

Sept. 15

SAGITTARIUS

OPHTHICUS

SCORPIO

CAPRICORNUS

AQUARIUS

LIBRA

PISCES

ARIES

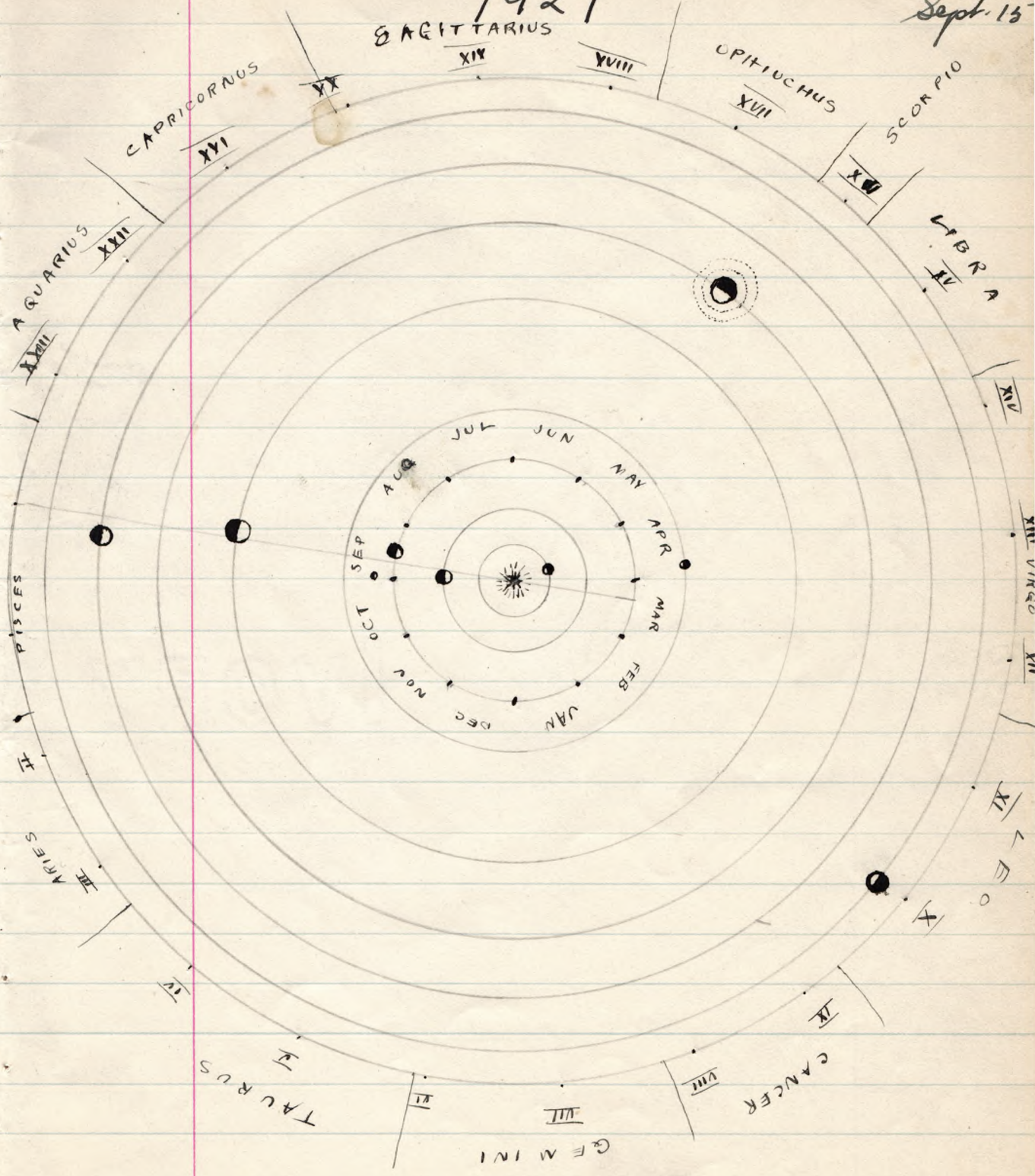
Taurus

GEMINI

CANCER

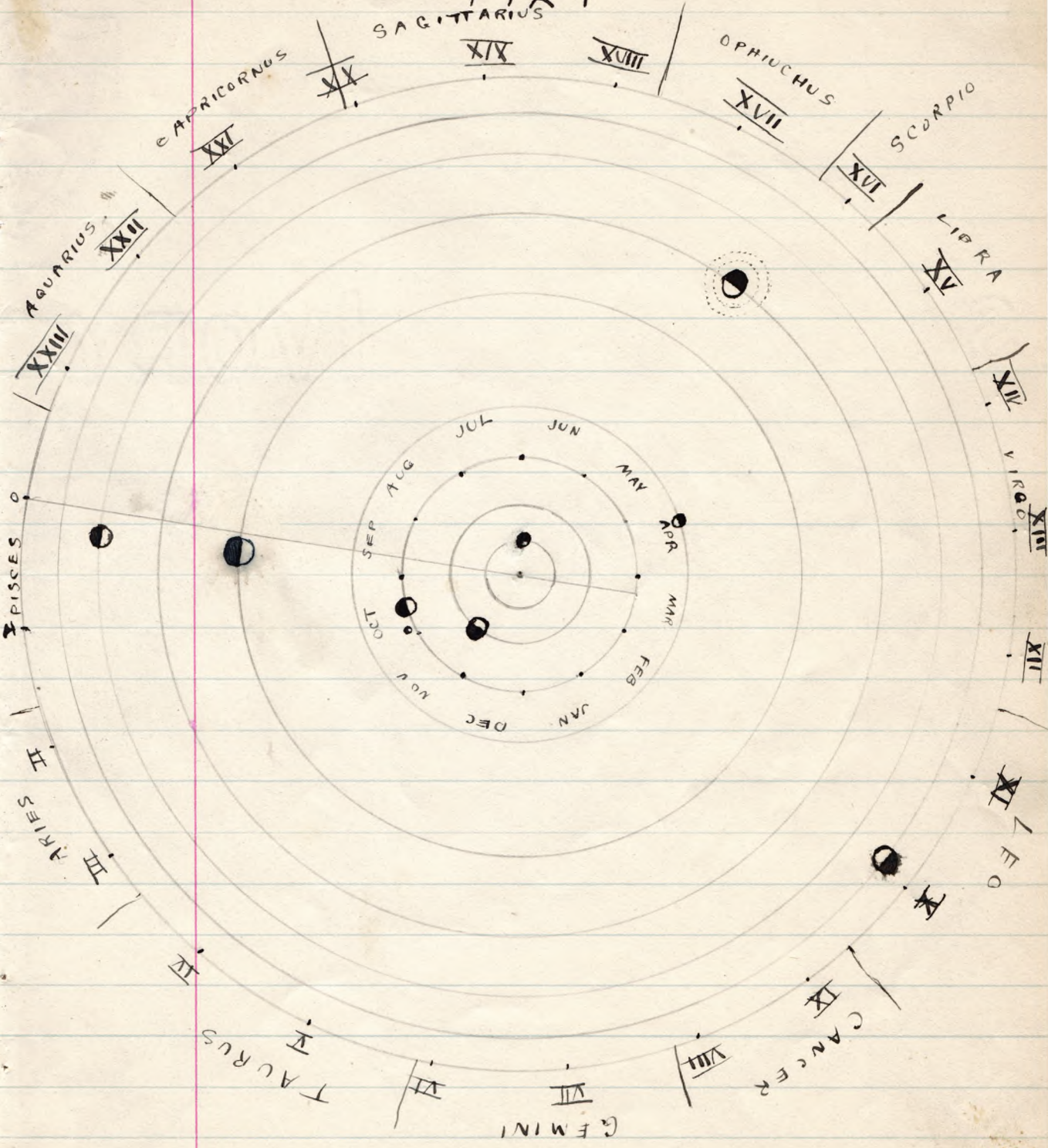
1927

Sept 15:



Oct. 15

1927



Oct. 15:

1927

1927

NOV. 15

SAGITTARIUS

OPHIUCHUS

SCORPIO

LIGRA

CAPRICORNUS

PISCES

I PISCES

ARIES

TANRUS

GEMINI

CANCER

LEO

VIRGO

XII

XI

X

IX

VIII

VII

VI

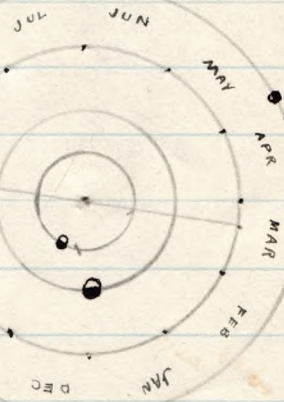
V

IV

III

II

I



NOV. 15

1927

Dec 15.

1927

SAGITTARIUS

XIX

XVIII

OPHIUCHUS

XVII

SCORPIO

XVI

LIBRA

XV

XIV

XIII

XII

XI

X

IX

CANCER

VIII

GEMINI

VII

VI

TAURUS

V

ARIES

IV

PISCES

III

AQUARIUS

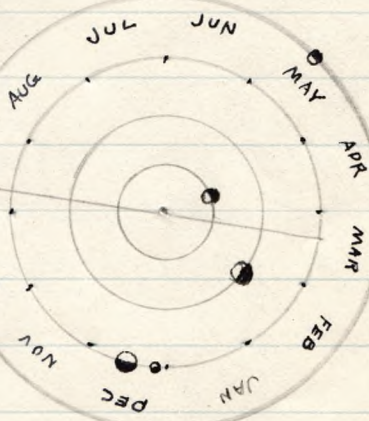
XXIII

XXII

CAPRICORNUS

XXI

XX

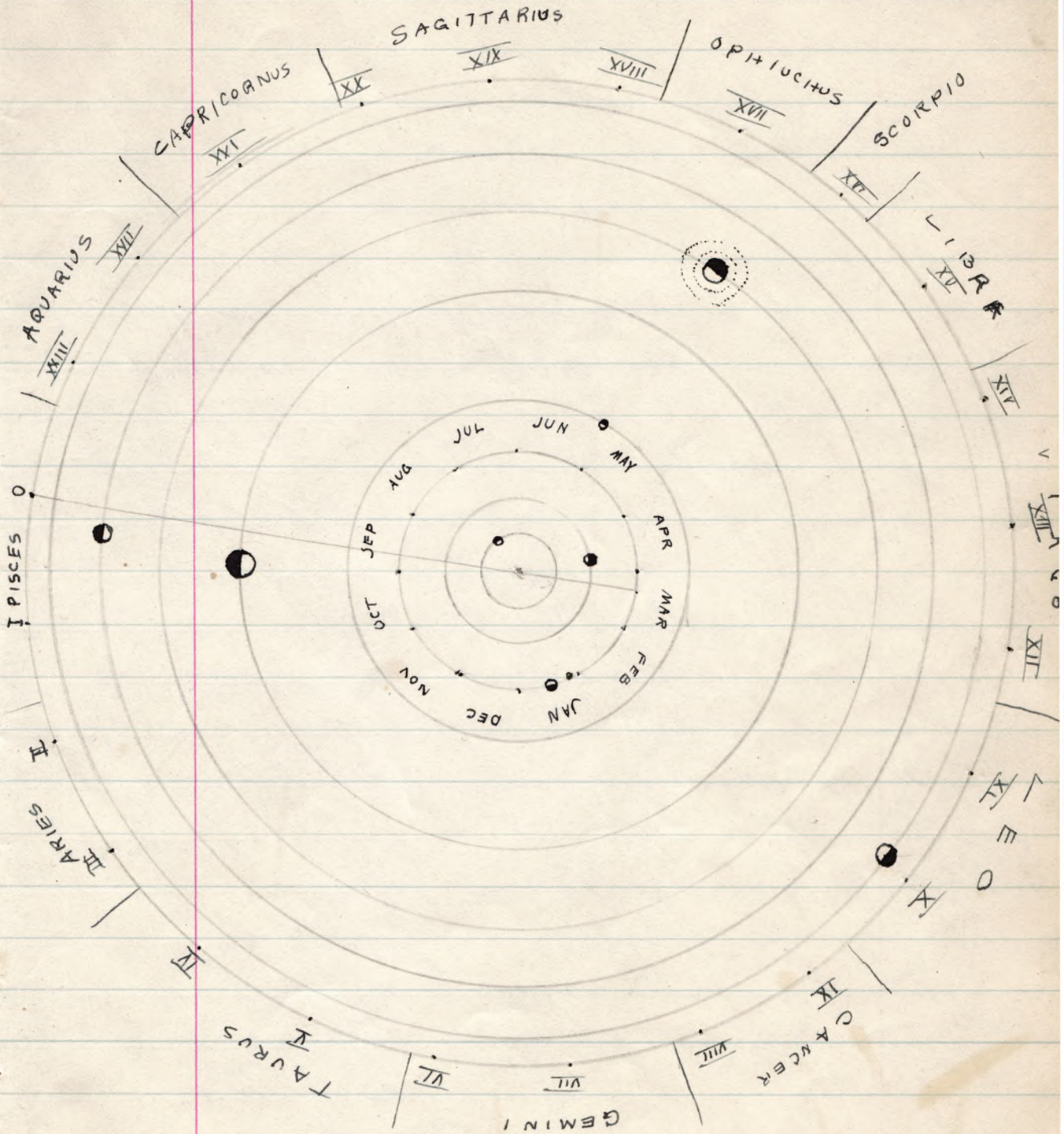


Dec 15

1927

1928

Jan 15

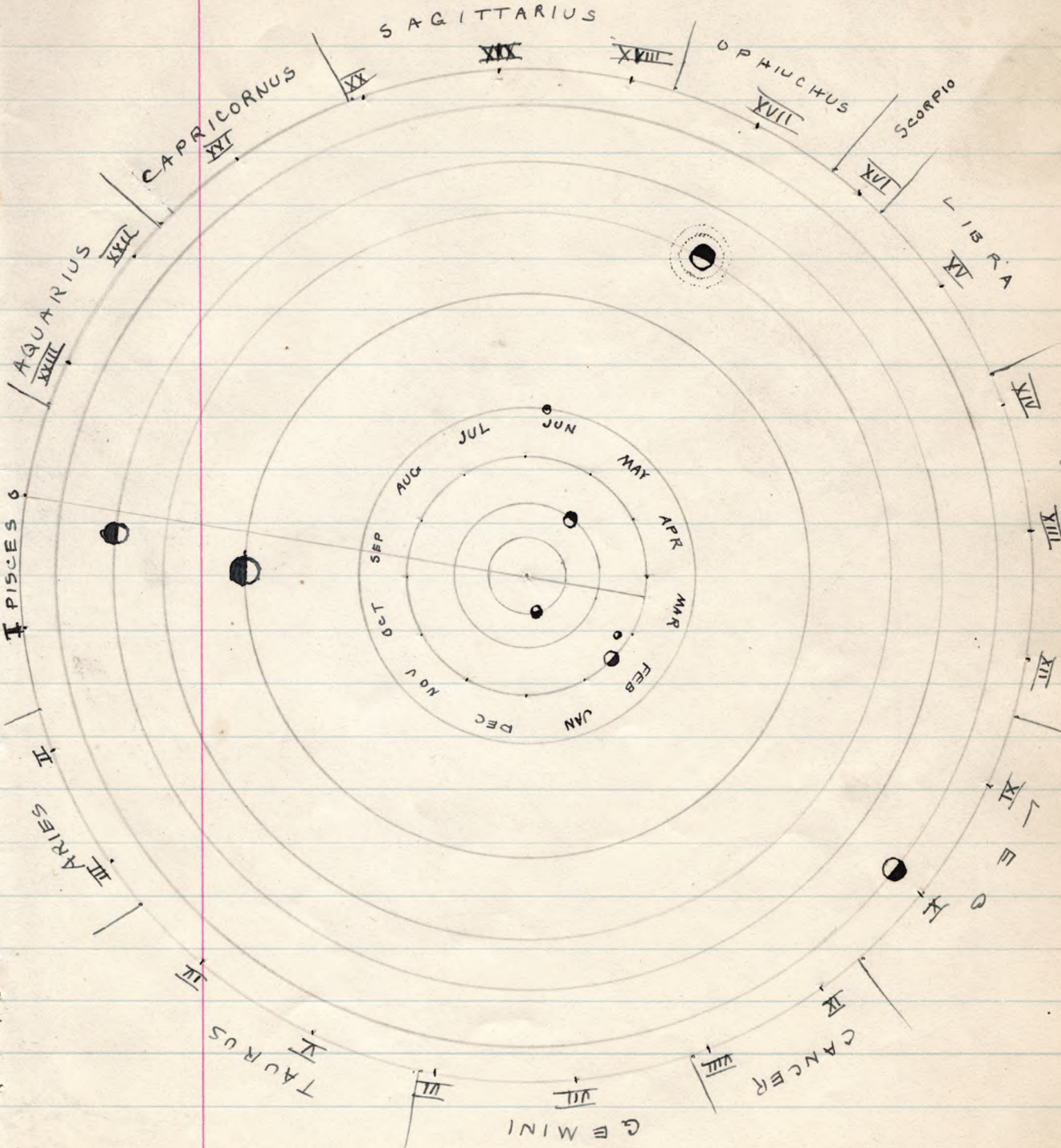


Jan. 15

1928

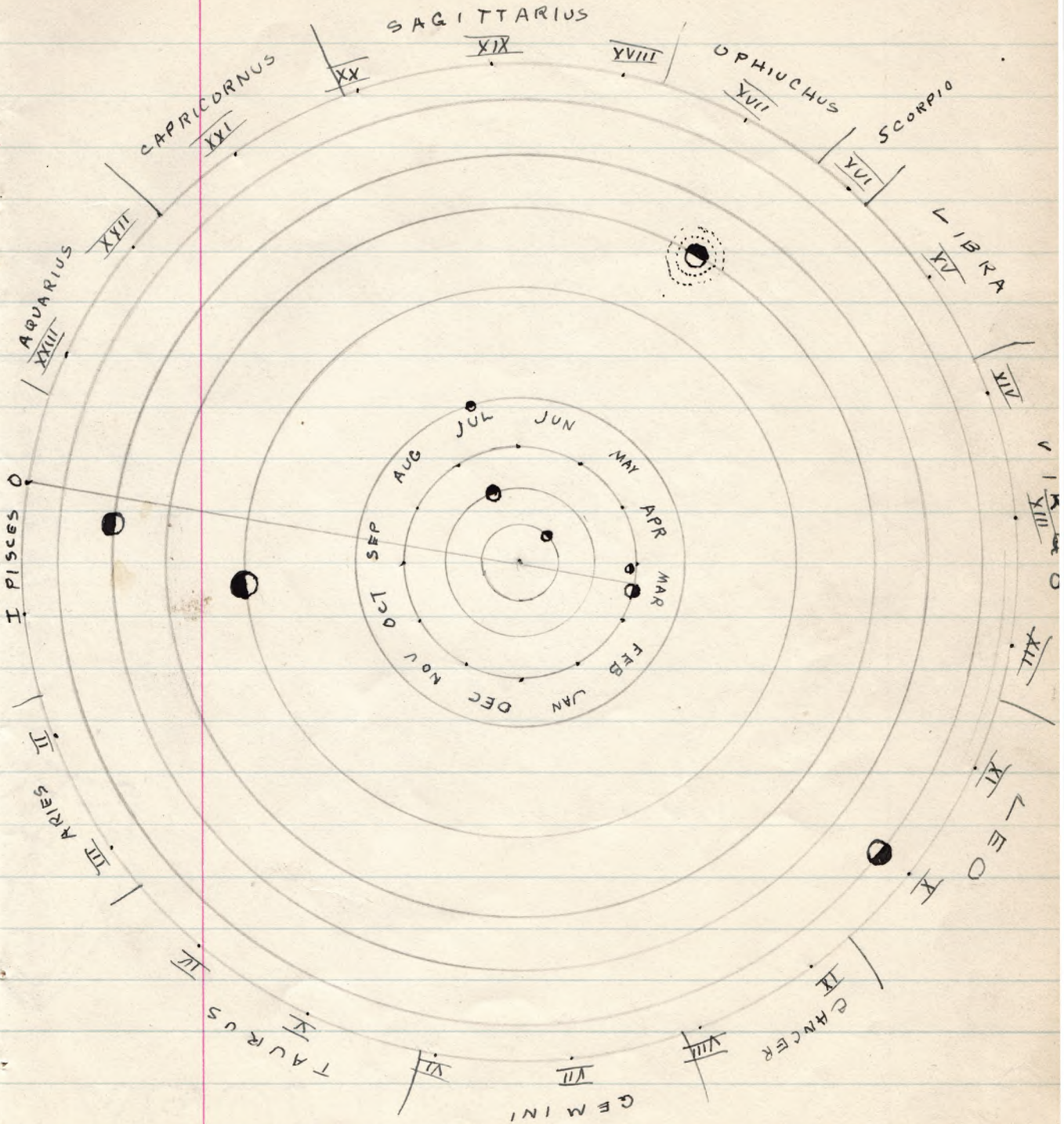
1928

Feb. 15.



1928

March 15.



March 15

1928

1928

Apr. 15.

SAGITTARIUS

OPHIUCHUS

SCORPIO

LIBRA

AQUARIUS

CAPRICORNUS

PISCES

ARIES

T A U R U S

G E M I N I

C A N C E R

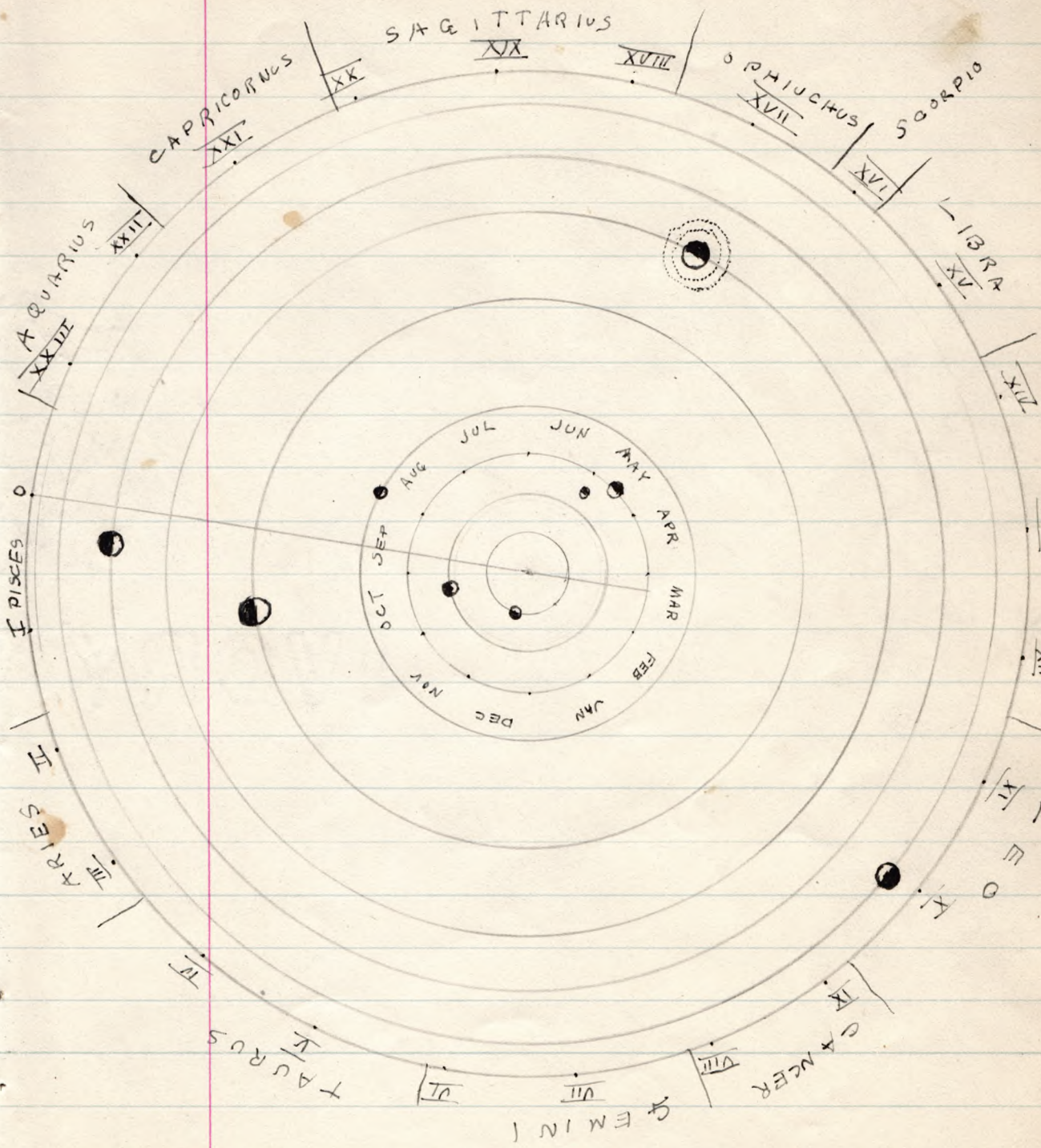


April 15.

1928

1928

MAY 15.



MAY 15 - 1928

1928

1928

June 15.

SAGITTARIUS

XIX

XVIII

OPHIUCHUS

XVII

SCORPIO

XVI

LIBRA

XV

XIV

XIII

XII

LEO

XI

X

CANCER

IX

GEMINI

VIII

VII

T A U R U S

VI

III ARIES

IV

II

I PISCES

XIII

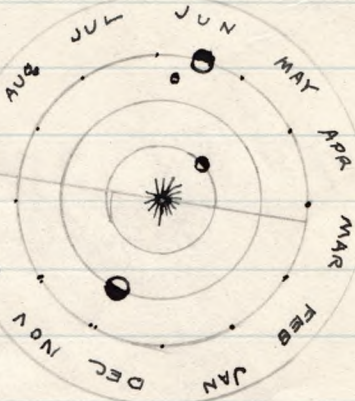
AQUARIUS

XII

CAPRICORNUS

XXI

XX

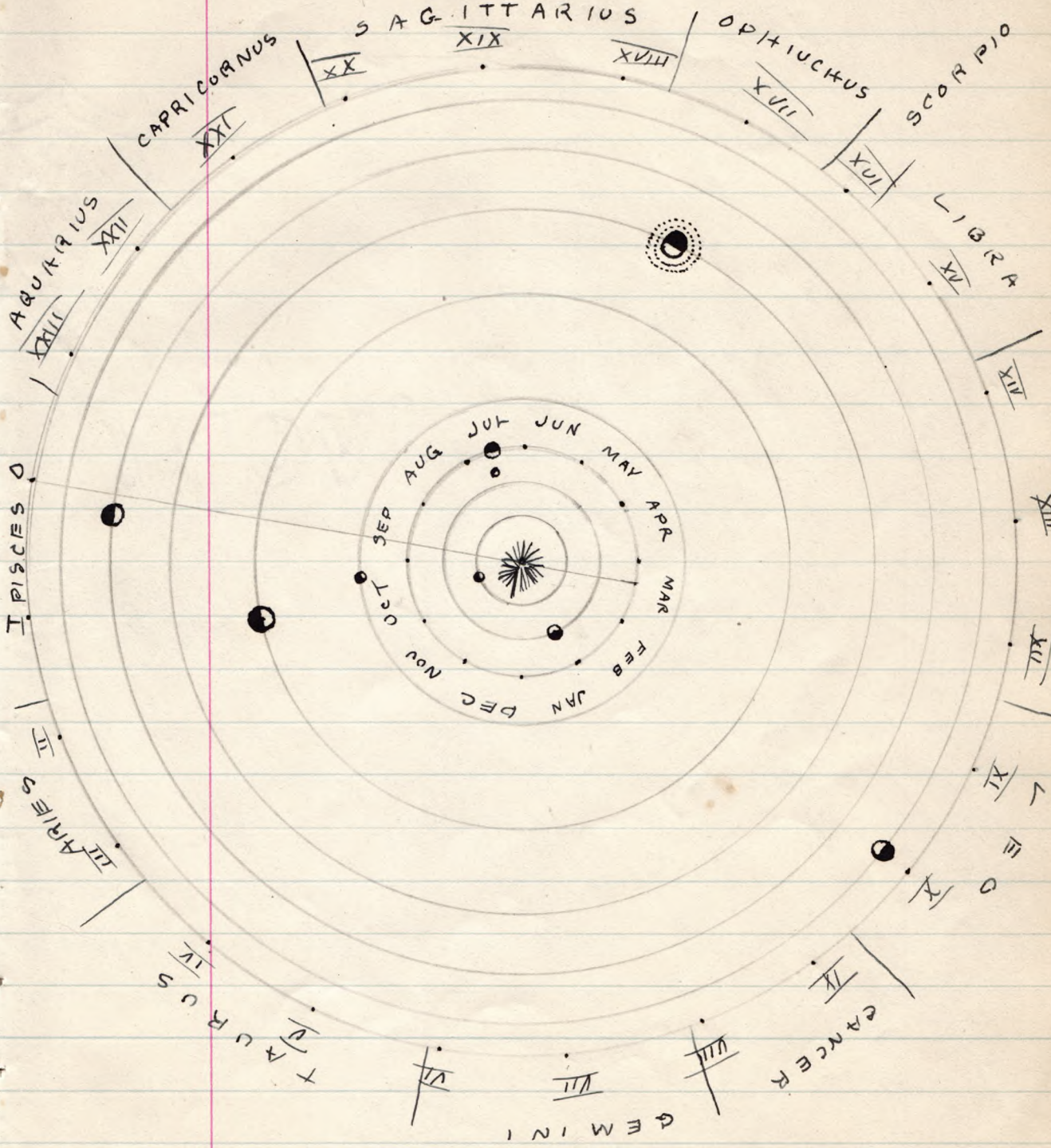


JUNE 15.

1928

1928

JULY 15



JULY 15

1928

1928

AUG. 15

SAGITTARIUS

OPHIUCHUS

SCORPIO

LIBRA

CAPRICORNUS

AQUARIUS

PISCES

ARIES

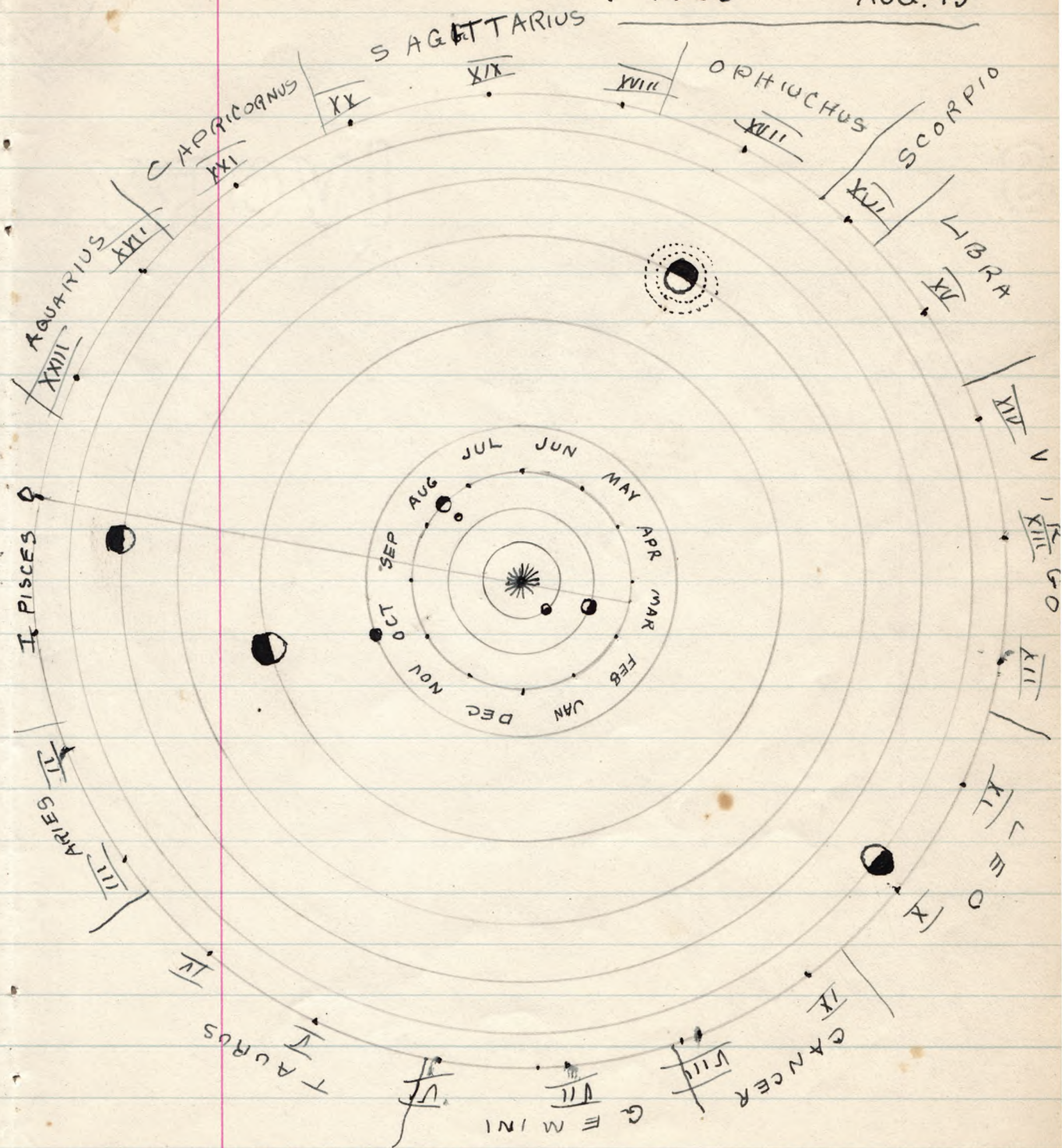
T A U R U S

G E M I N I

C A N C E R

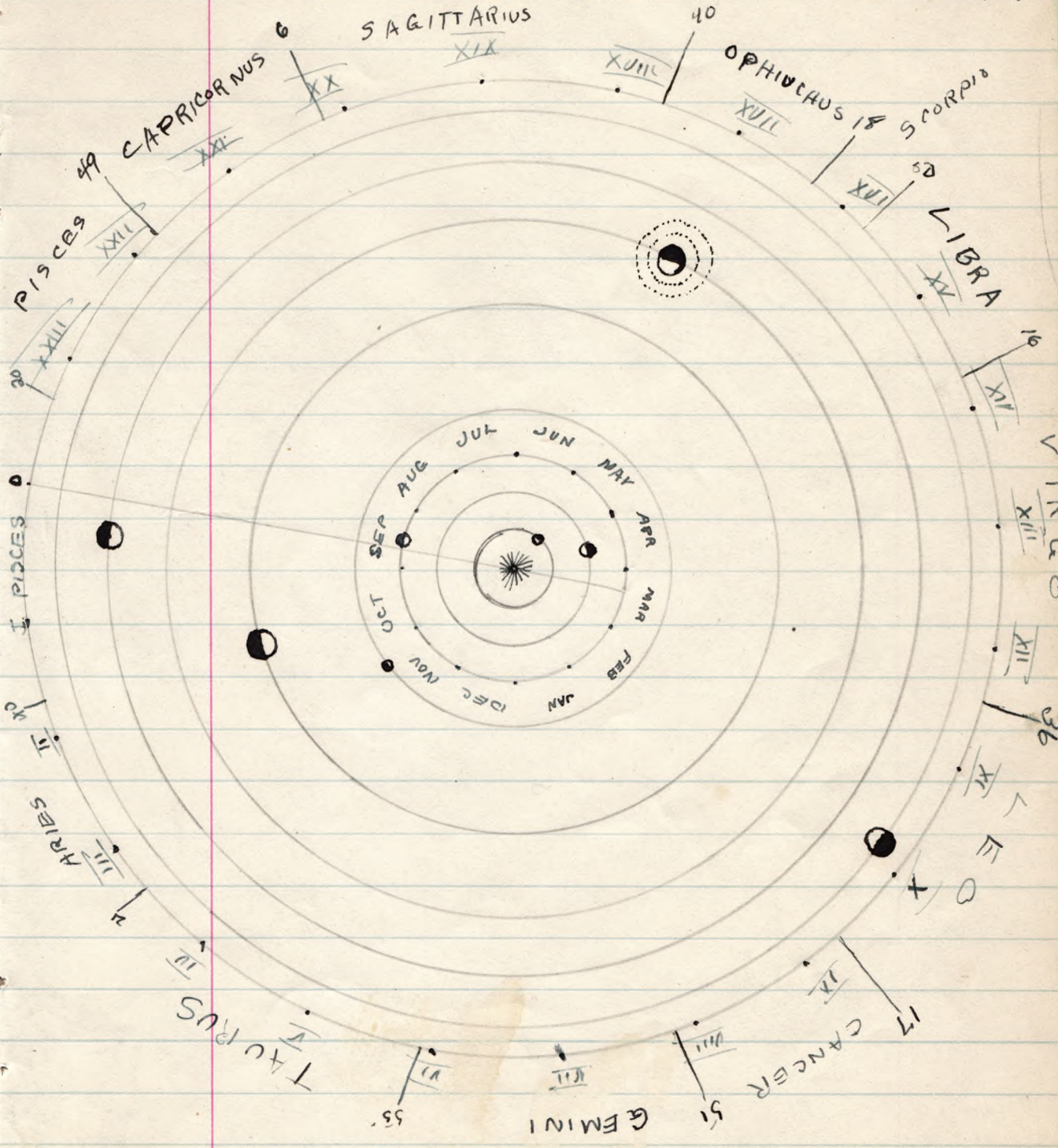
AUG. 15

1928



1928

SEPTEMBER 15



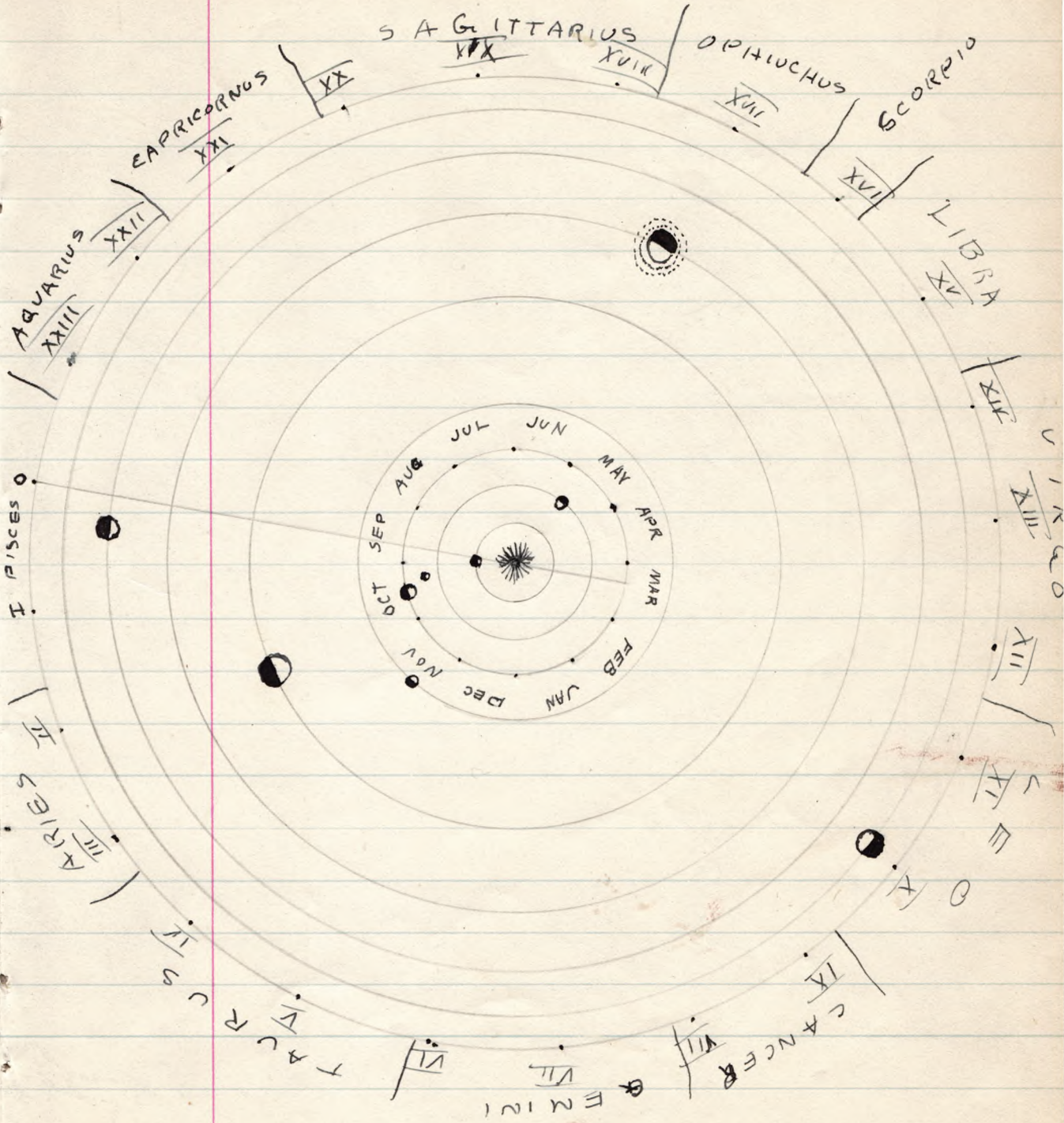
SEPTEMBER 15

1928

1928

OCTOBER

15.



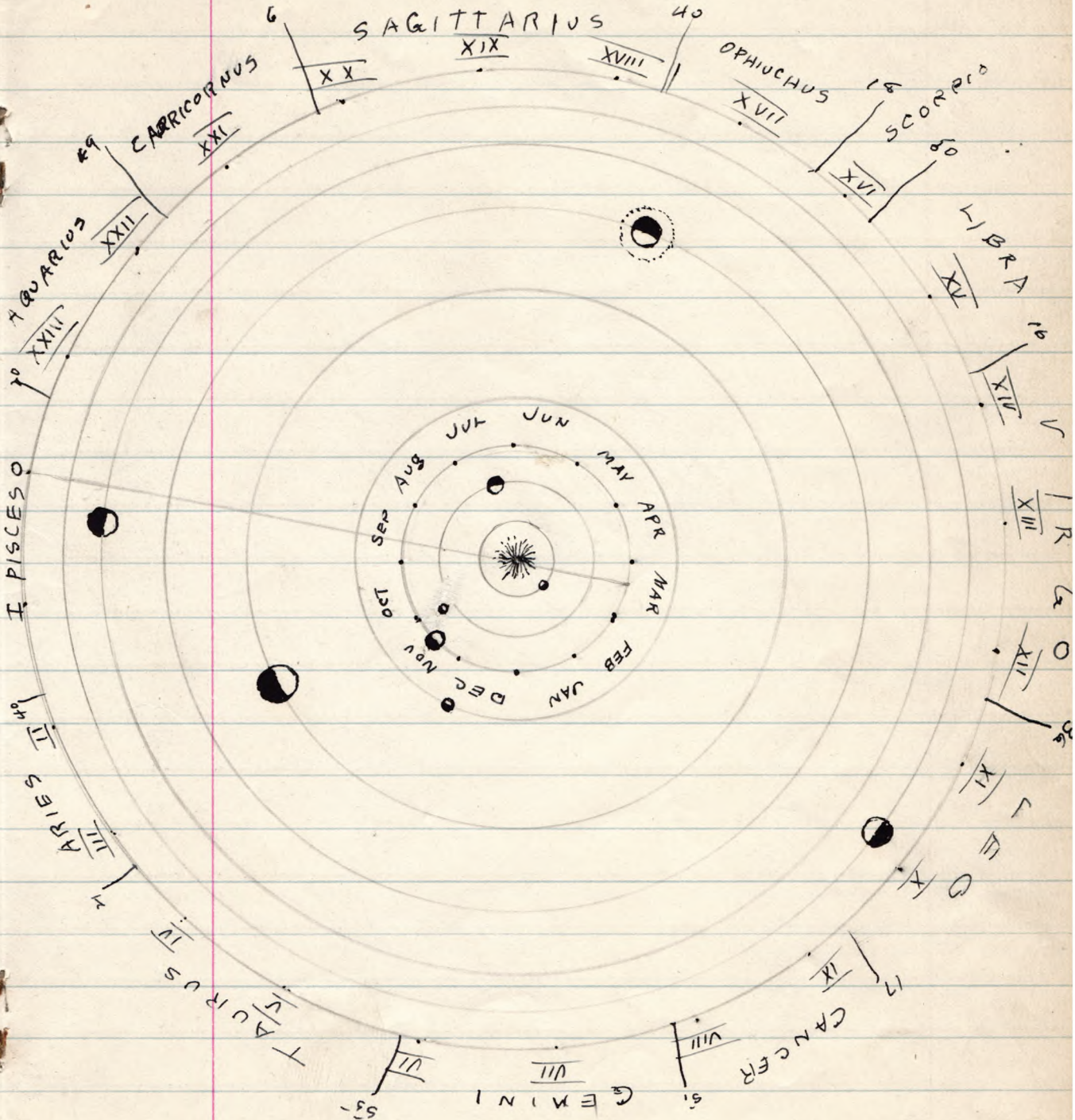
15

OCTOBER

1928

1928

NOVEMBER 15.

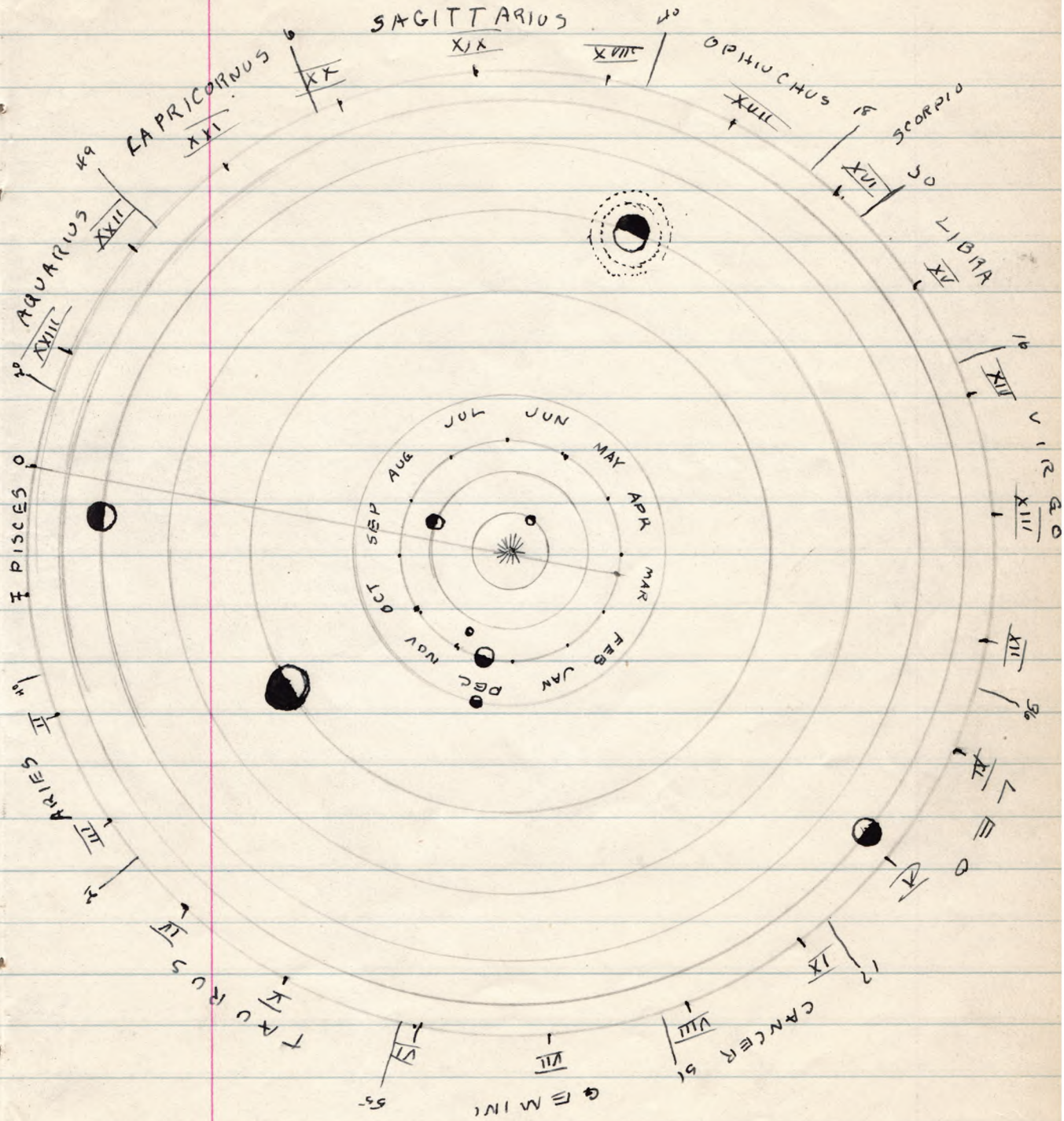


NOVEMBER 15

1928

1928

DECEMBER 15.

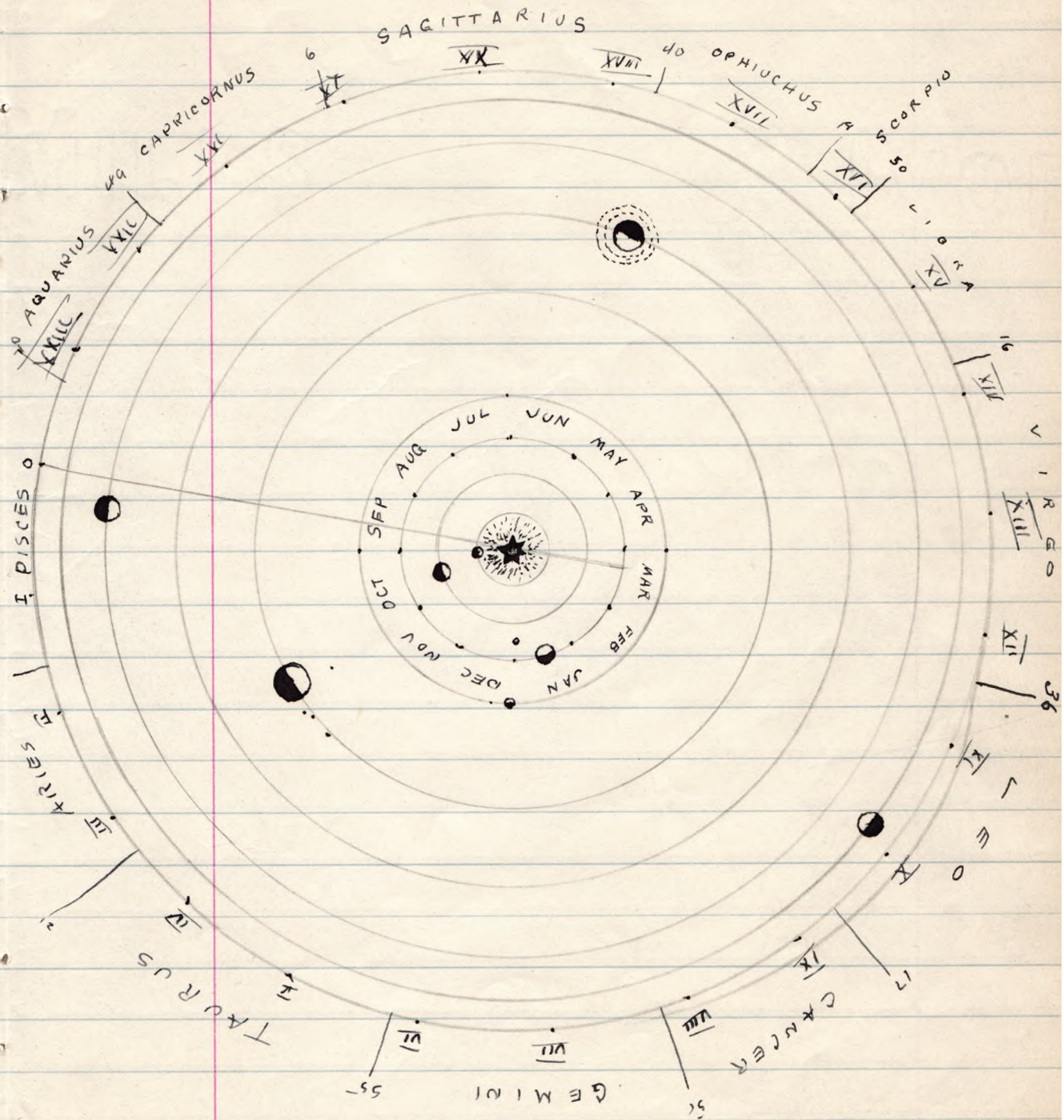


DECEMBER 15.

1928

1929

JANUARY 15

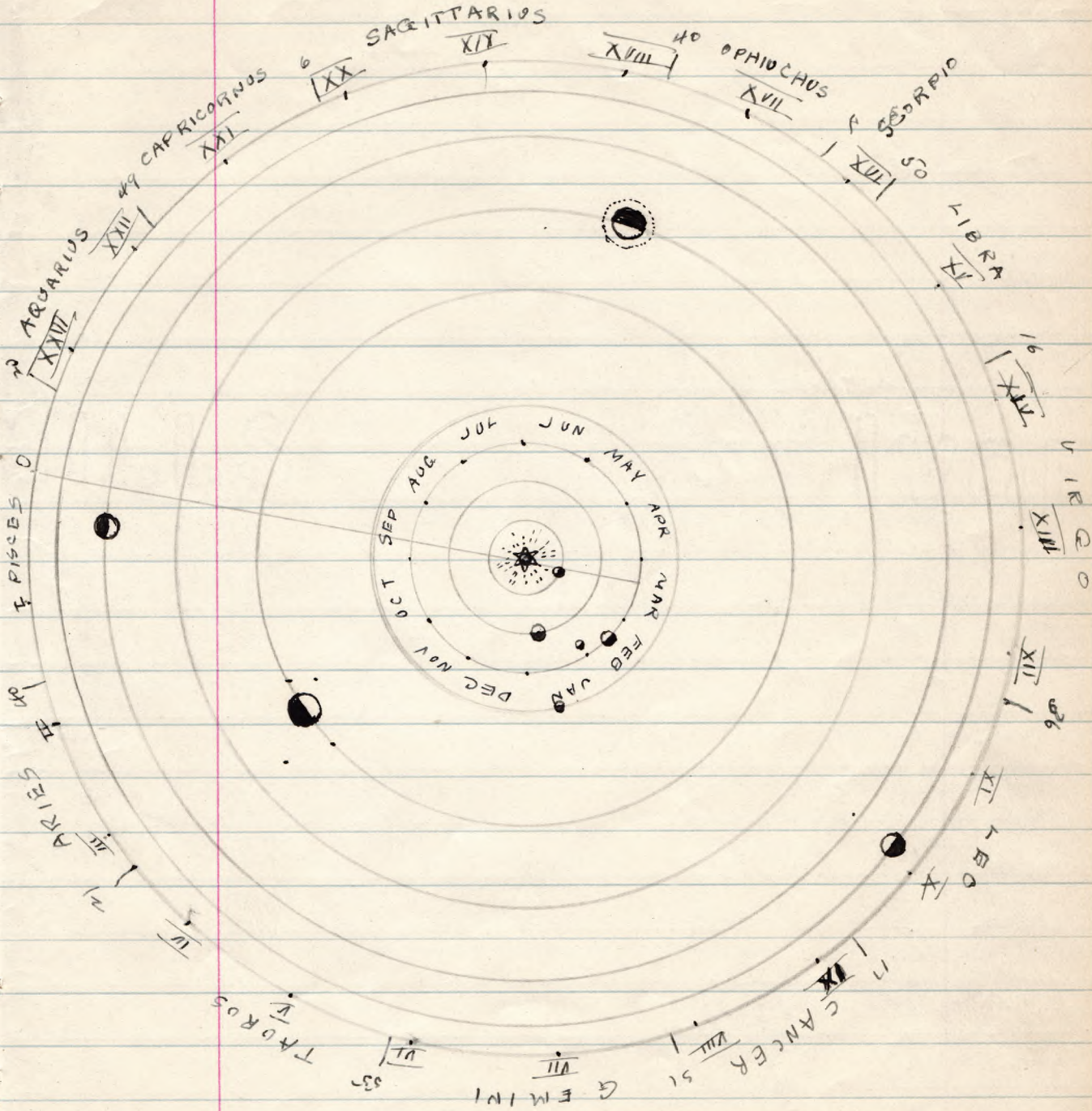


JAN 15

1929

1929

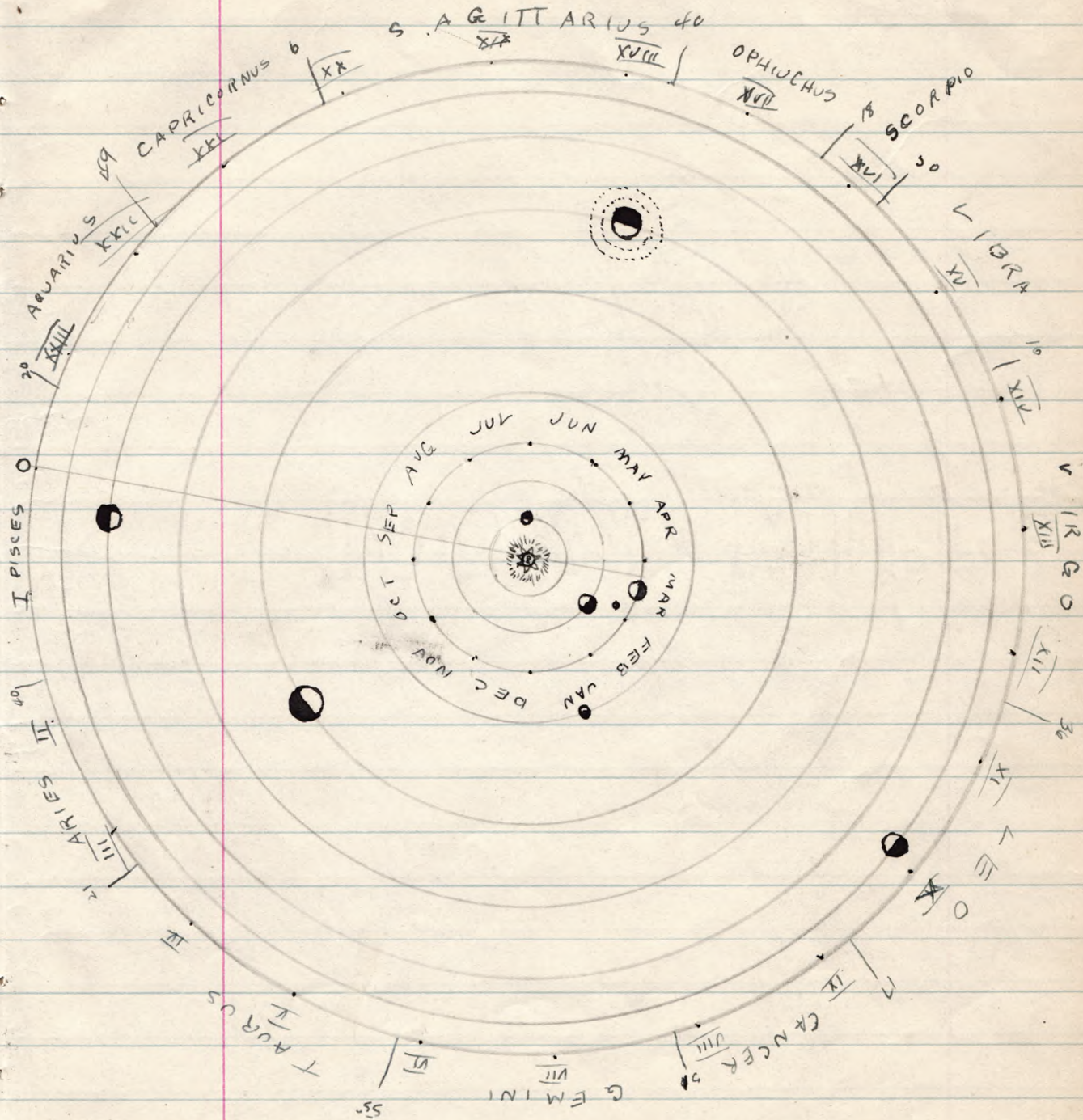
FEBRUARY 15.



FEBRUARY 15.

1929

1929, MARCH 15.

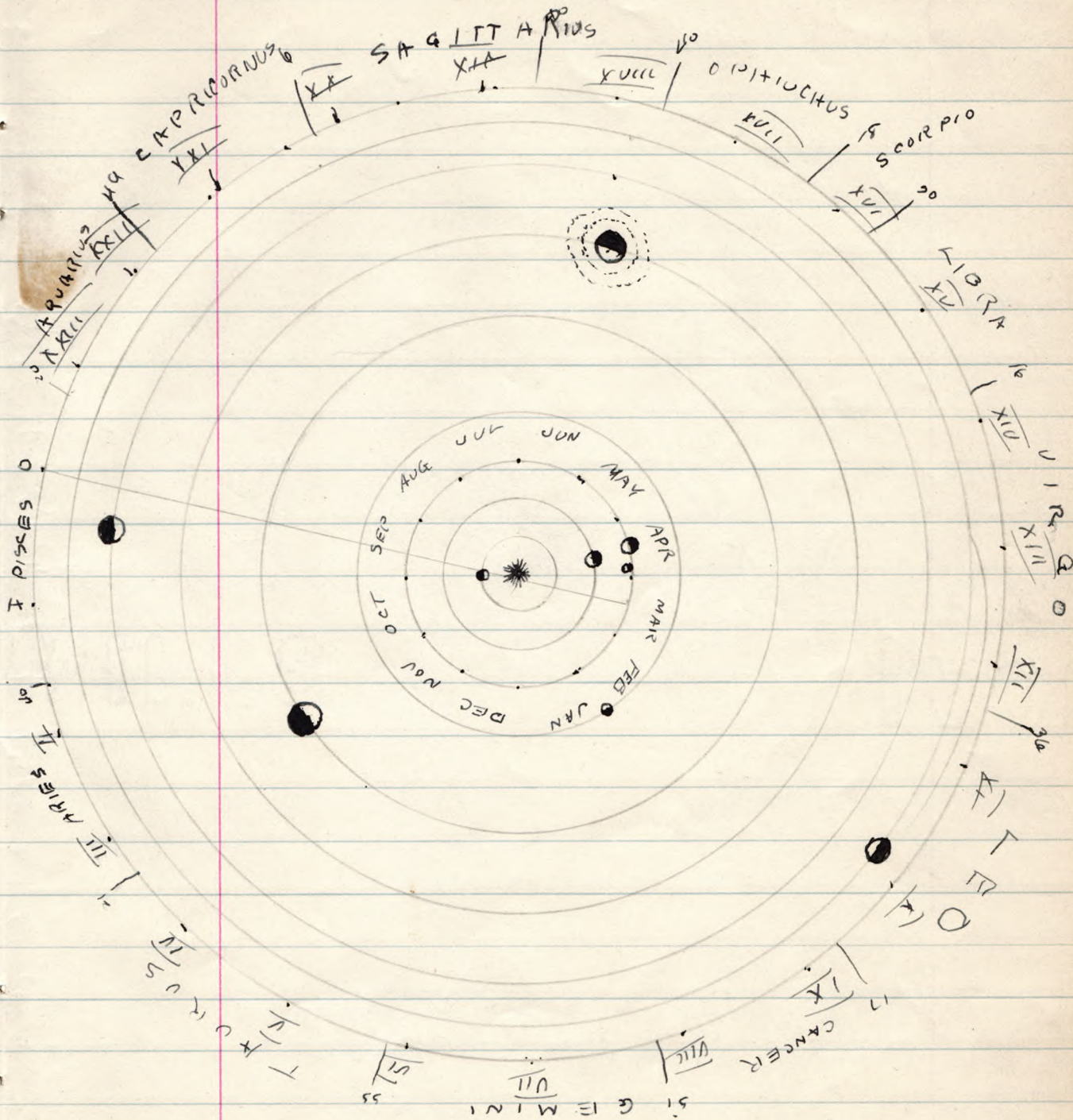


MARCH 15.

1929

1929

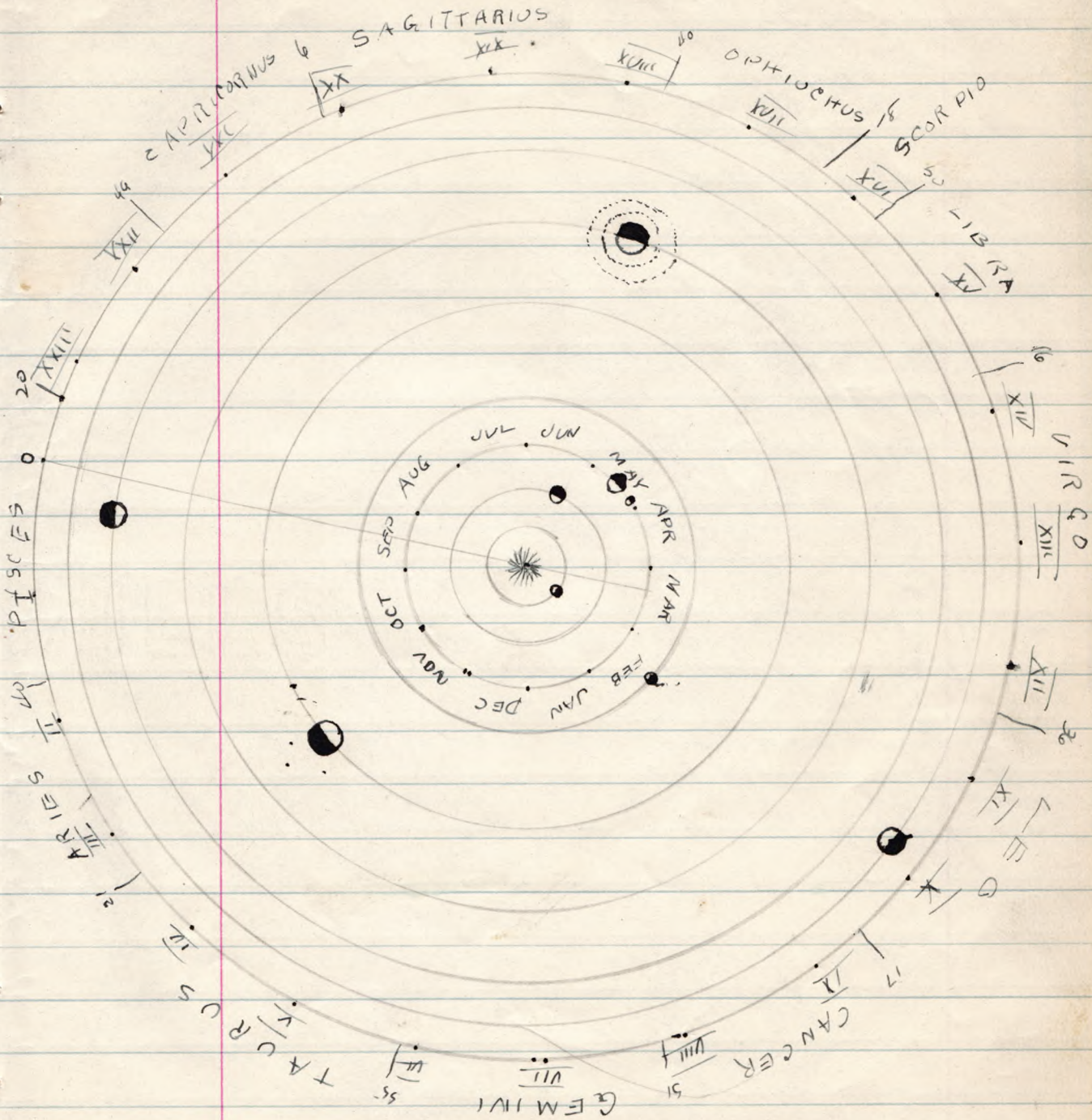
APRIL 15.



APRIL 15.

1929

MAY 15. 1929

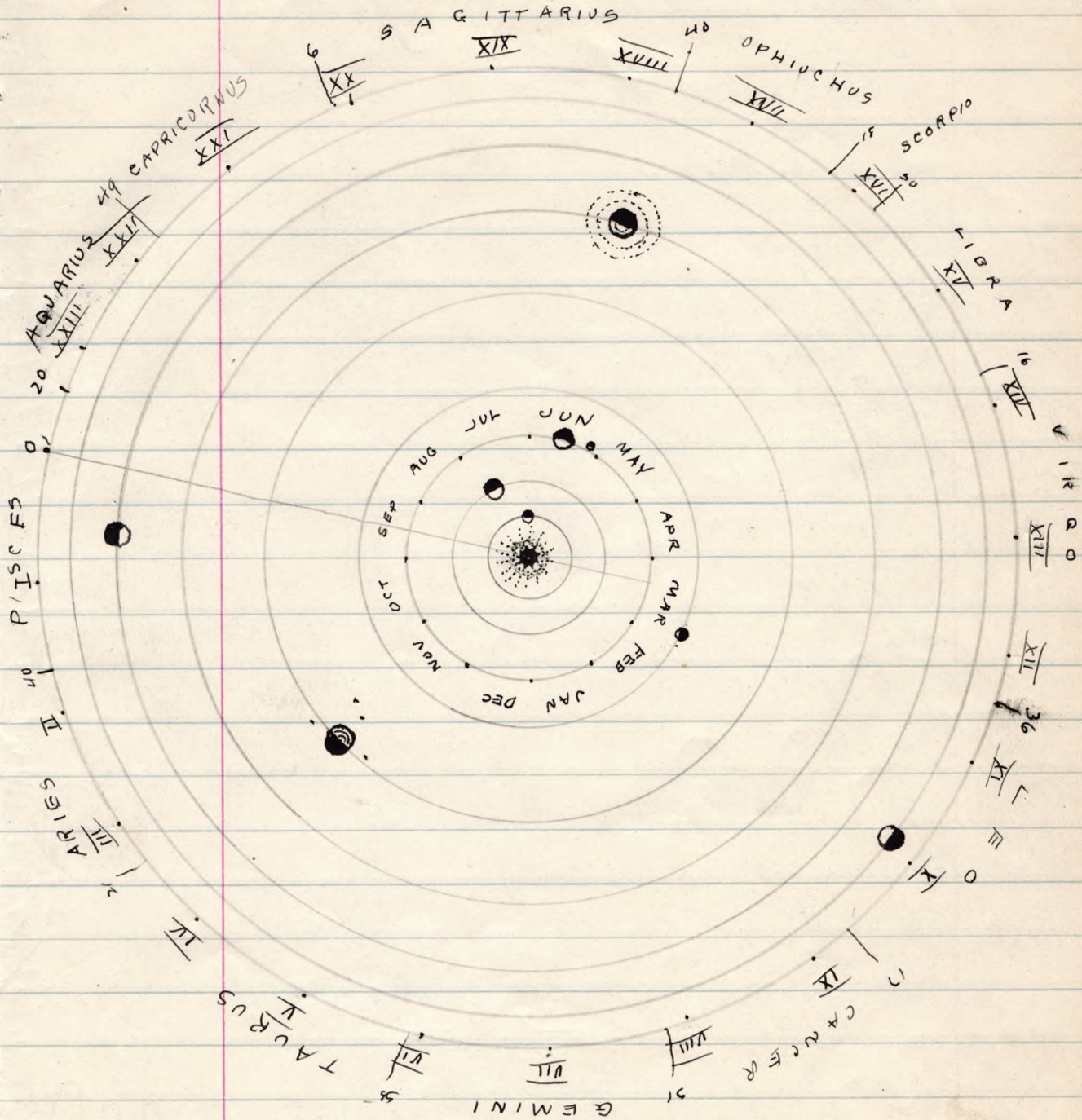


MAY 15.

1929

1929

JUNE 15.

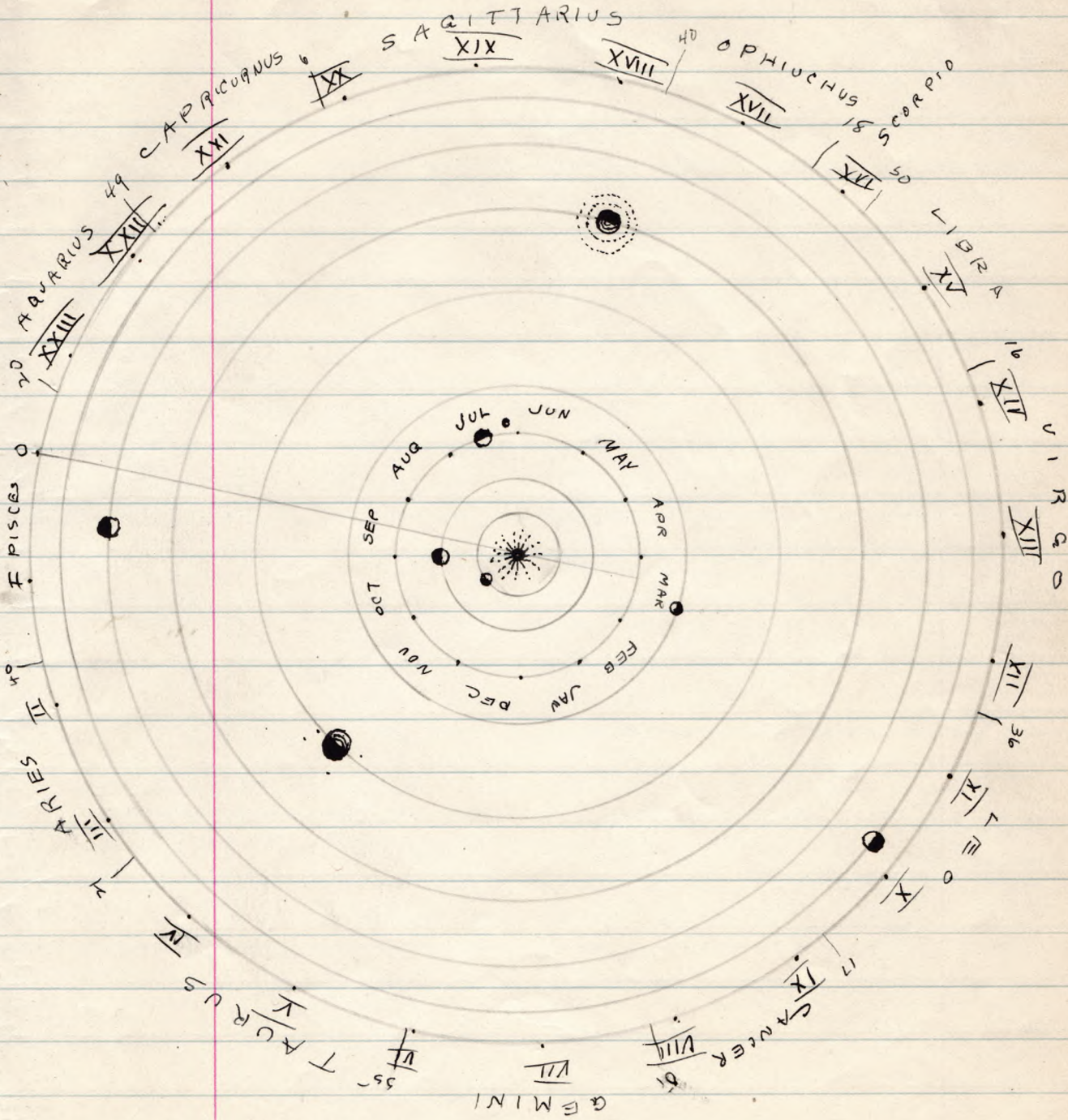


JUNE 15.

1929

1929

JULY 15

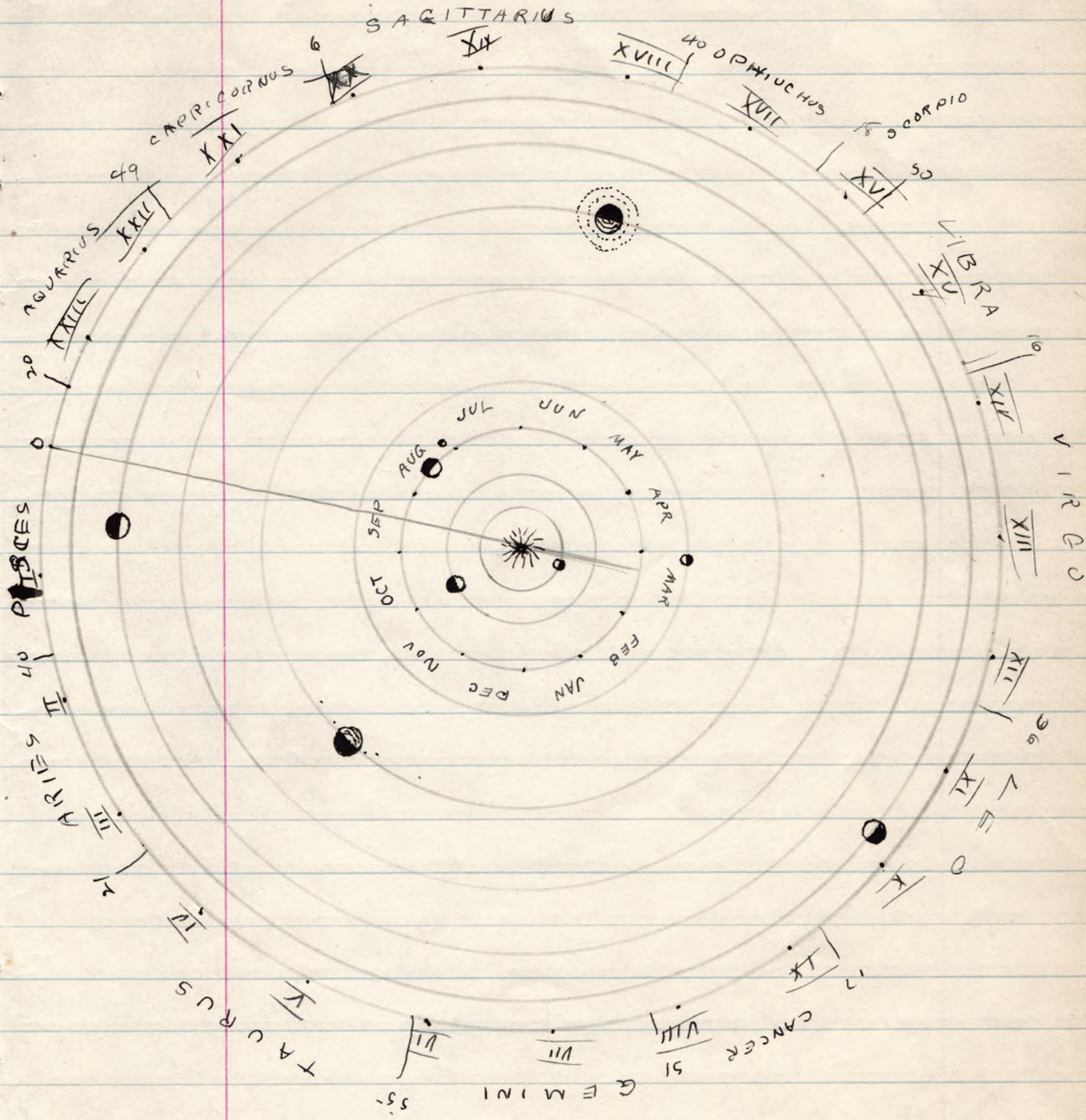


JULY 15

1929

1929

AUGUST 15

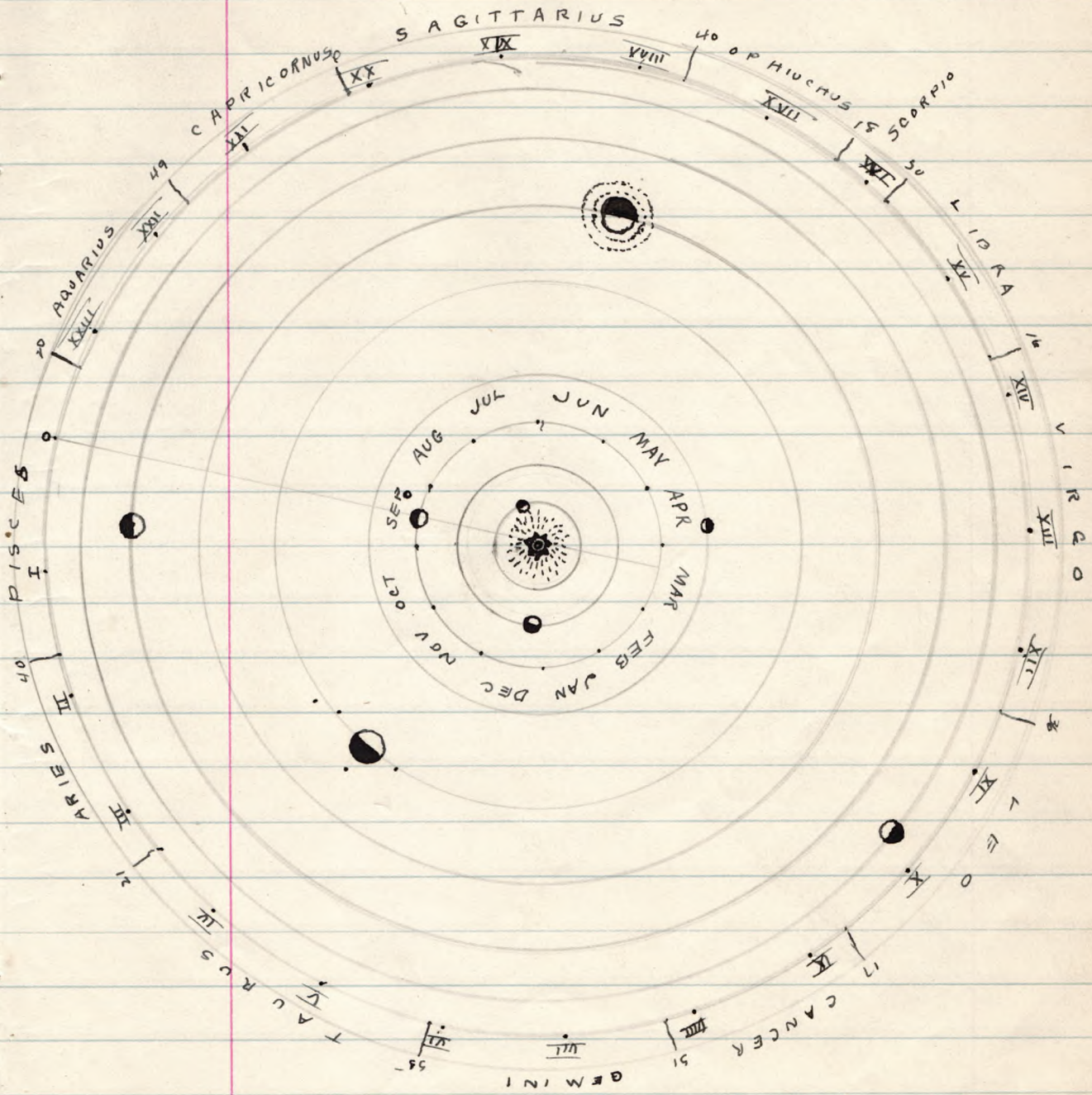


1929 AUGUST 15

1929

SEPTEMBER

15

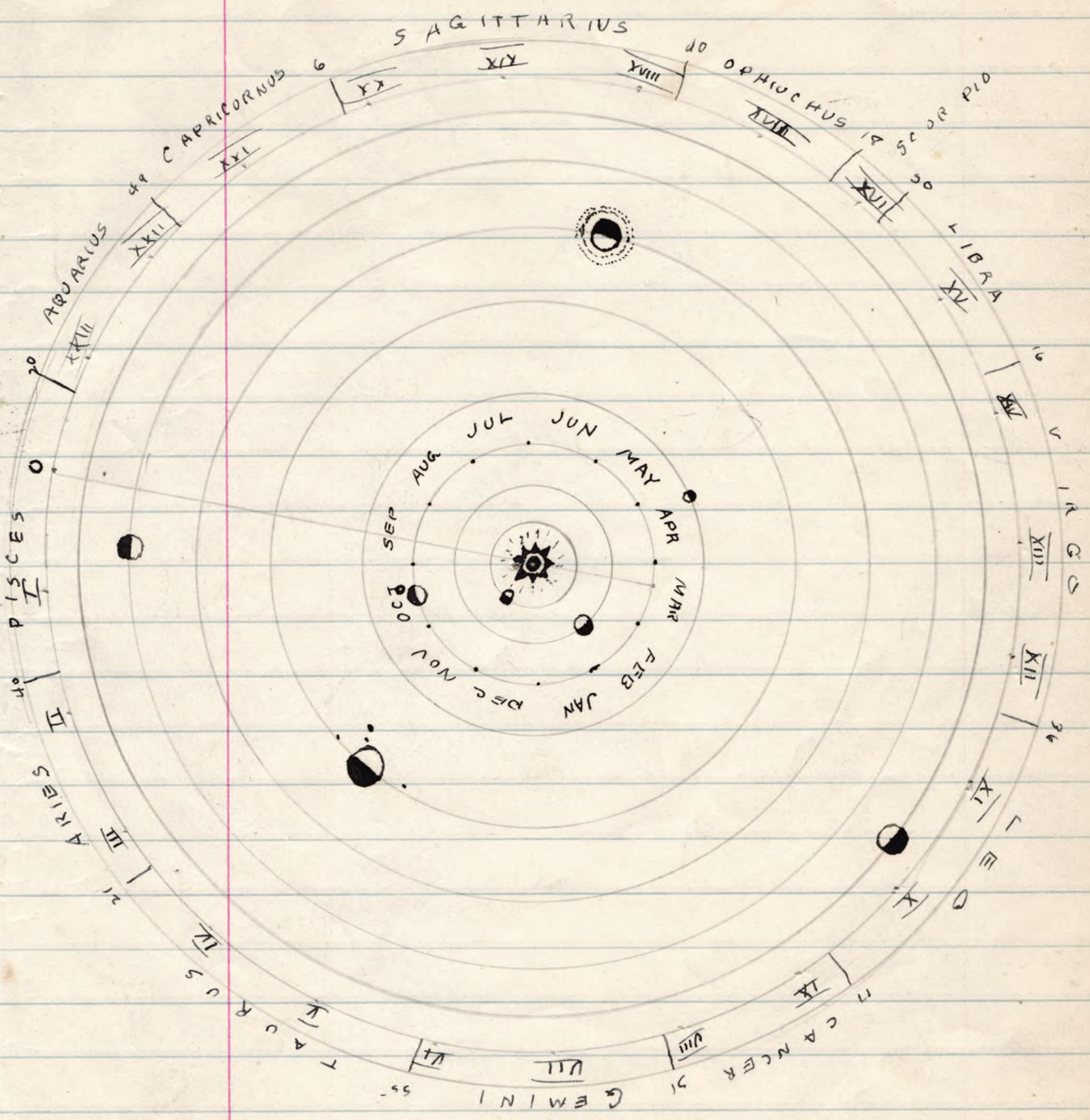


SEPTEMBER 15

1929

1929

OCTOBER 15.

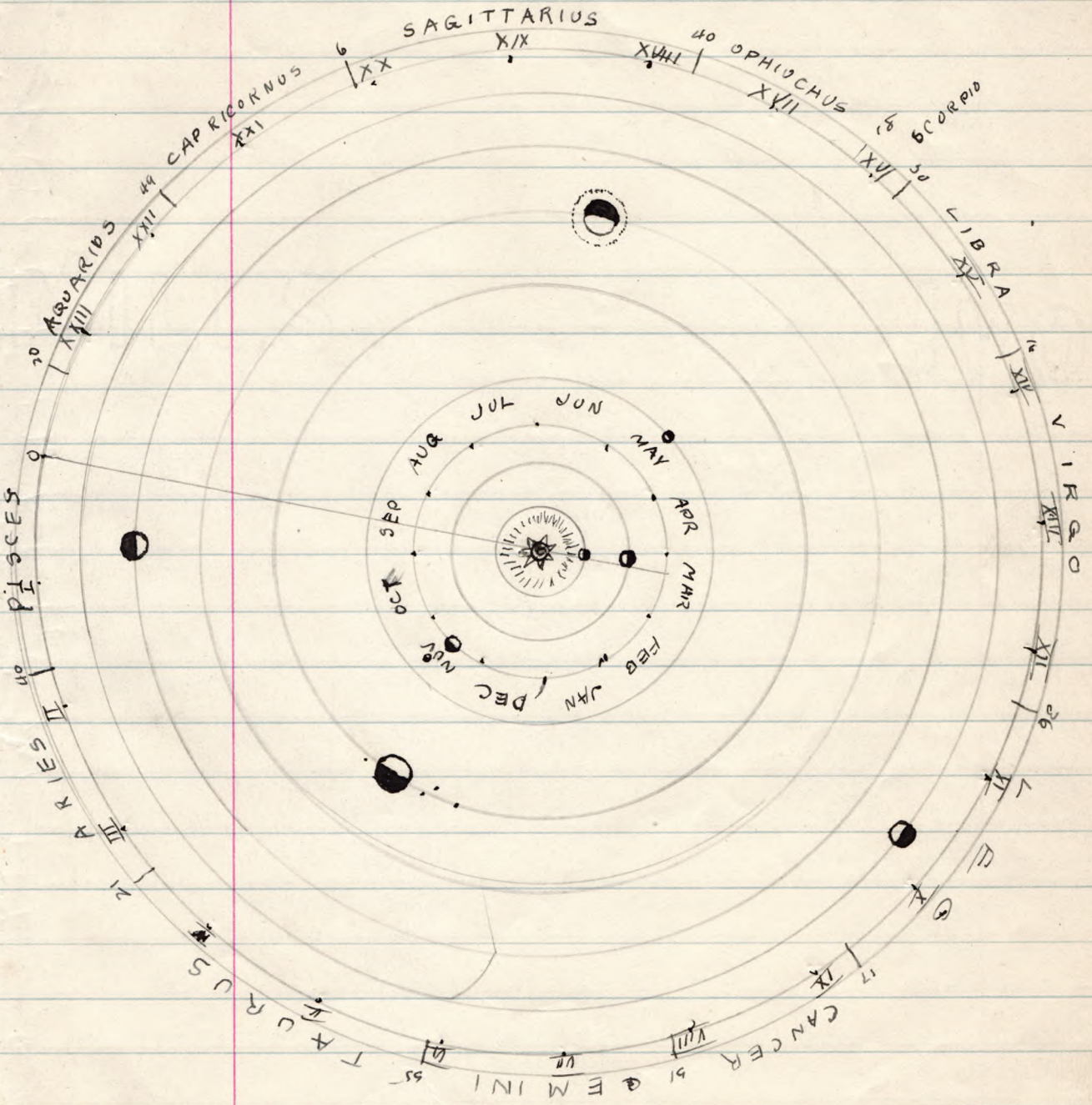


OCTOBER 16.

1929

1929

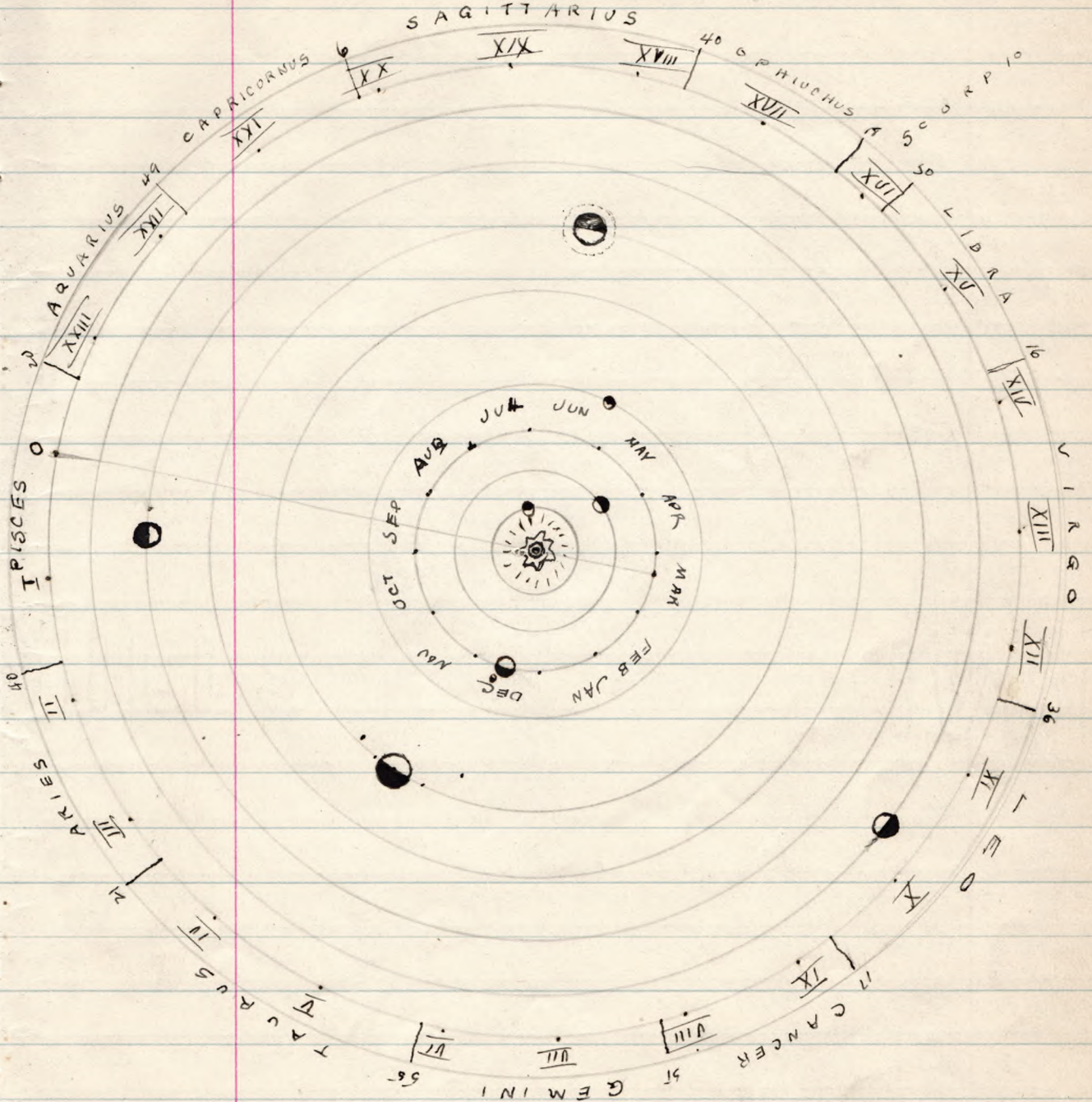
NOVEMBER 15



NOVEMBER 15

1929

1929 DECEMBER 15 1929

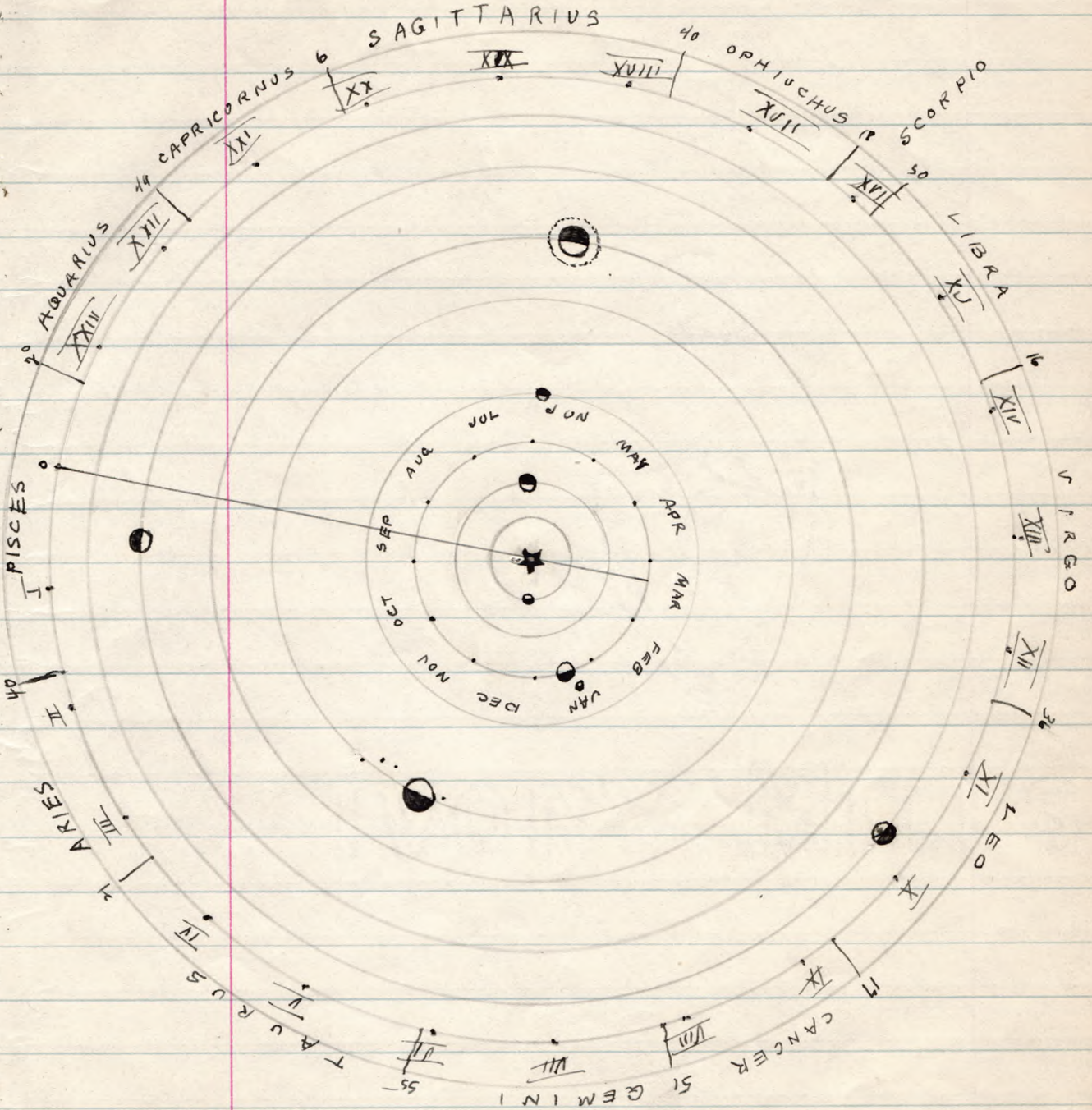


DECEMBER 15

1929

1930

JANUARY 15

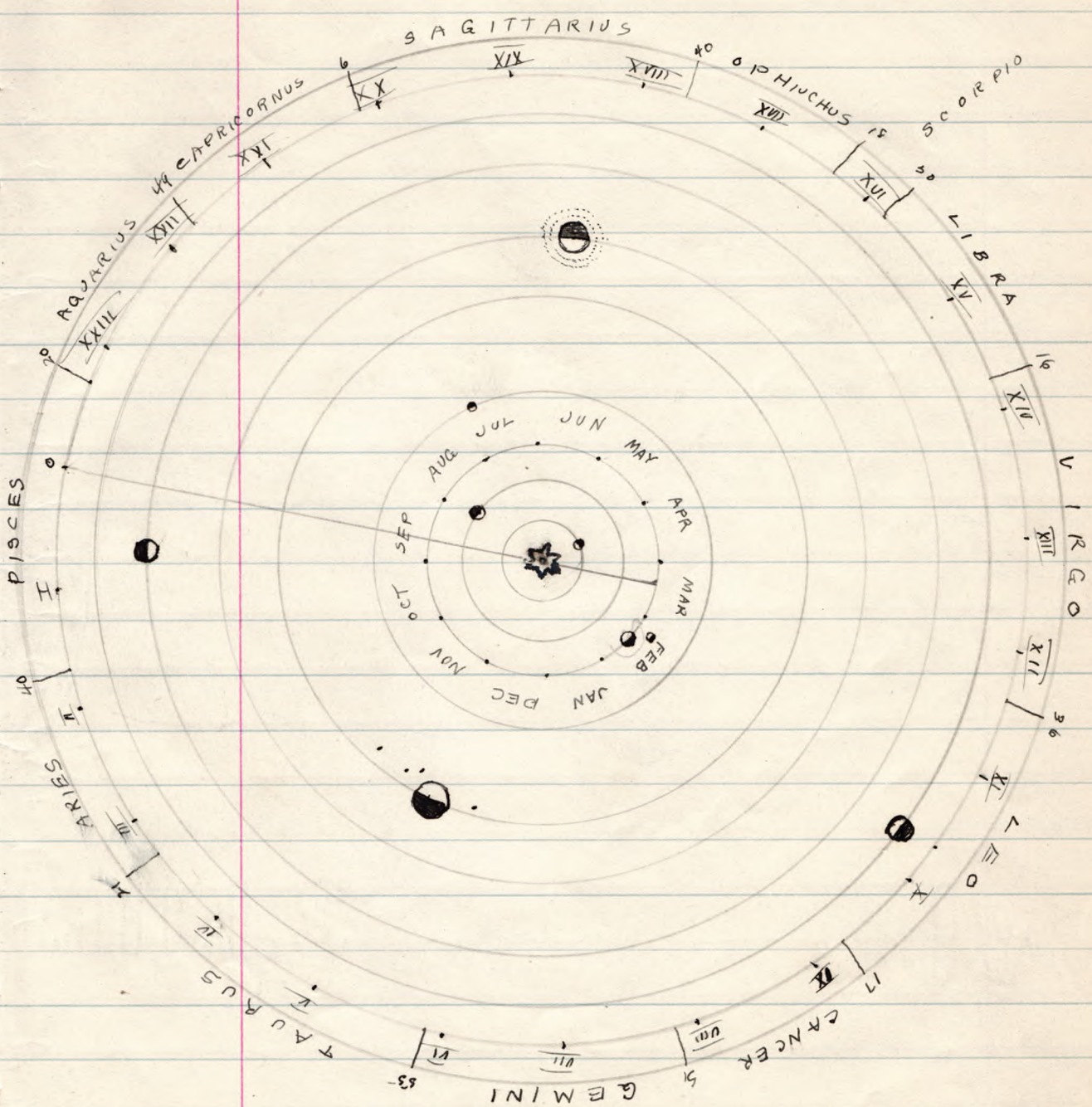


JANUARY 15

1930

1930

FEBRUARY 15

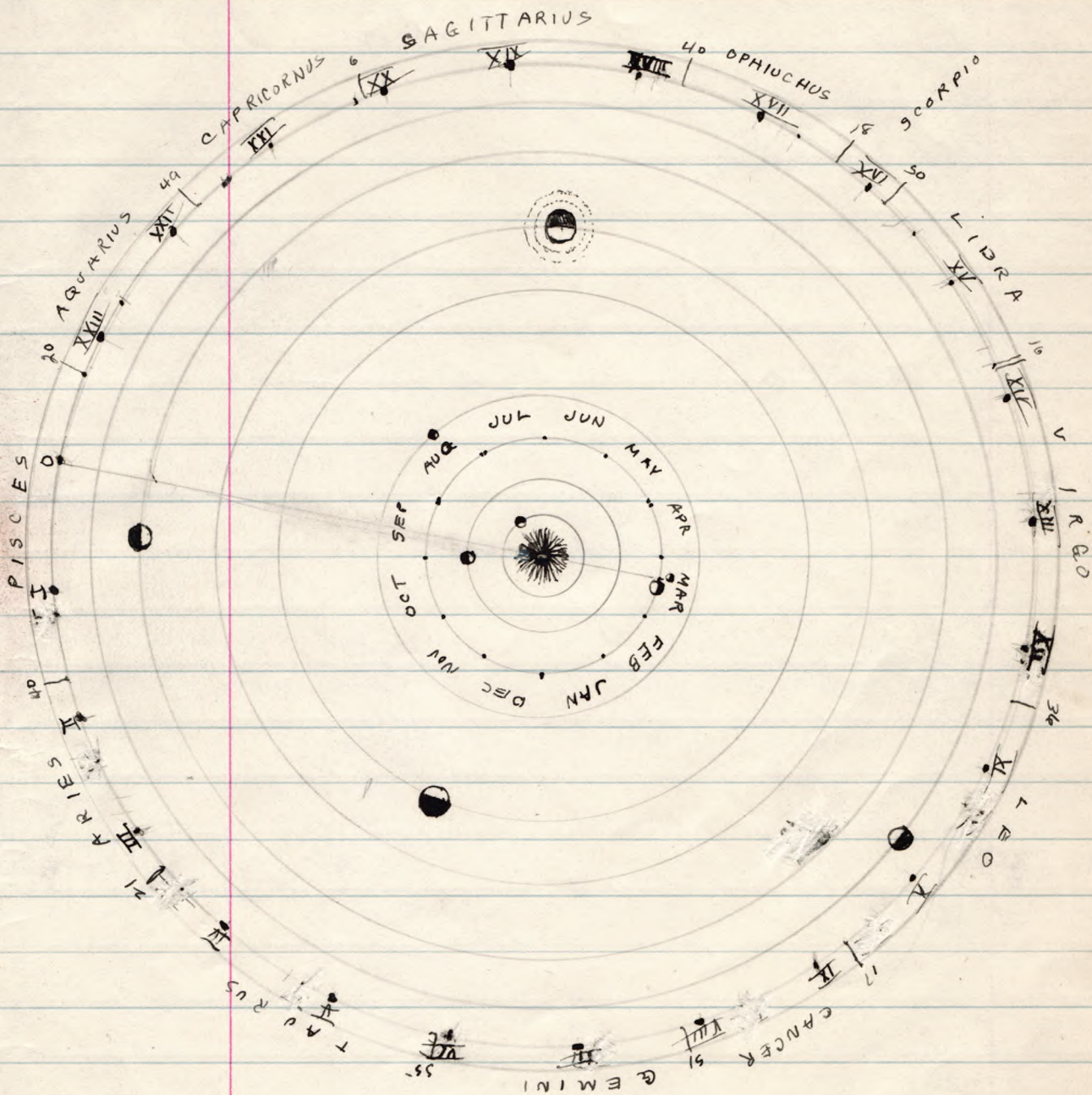


FEBRUARY 15

1930

1930

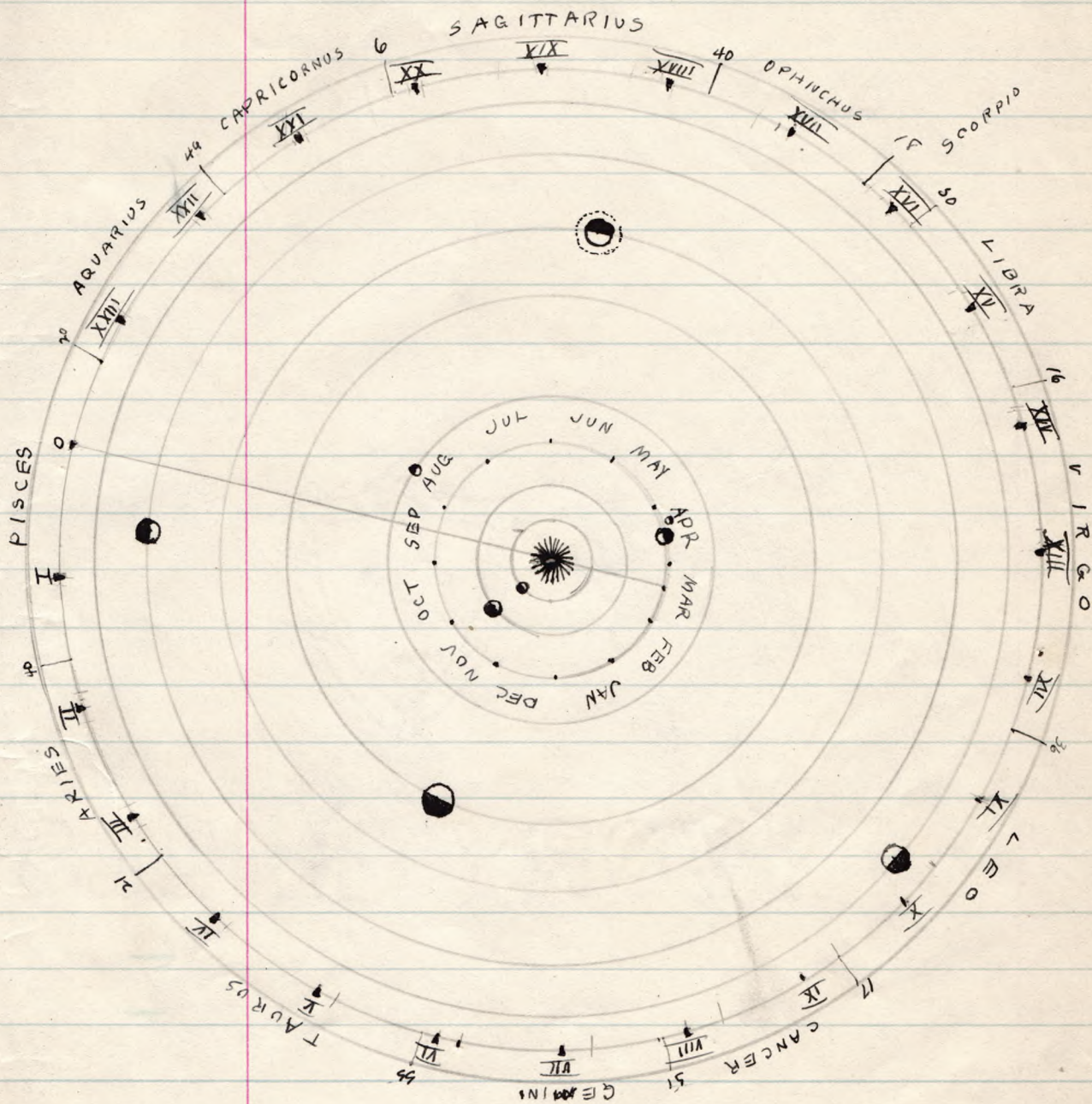
MARCH 15,



MARCH 15,

1930

1930 APRIL 15

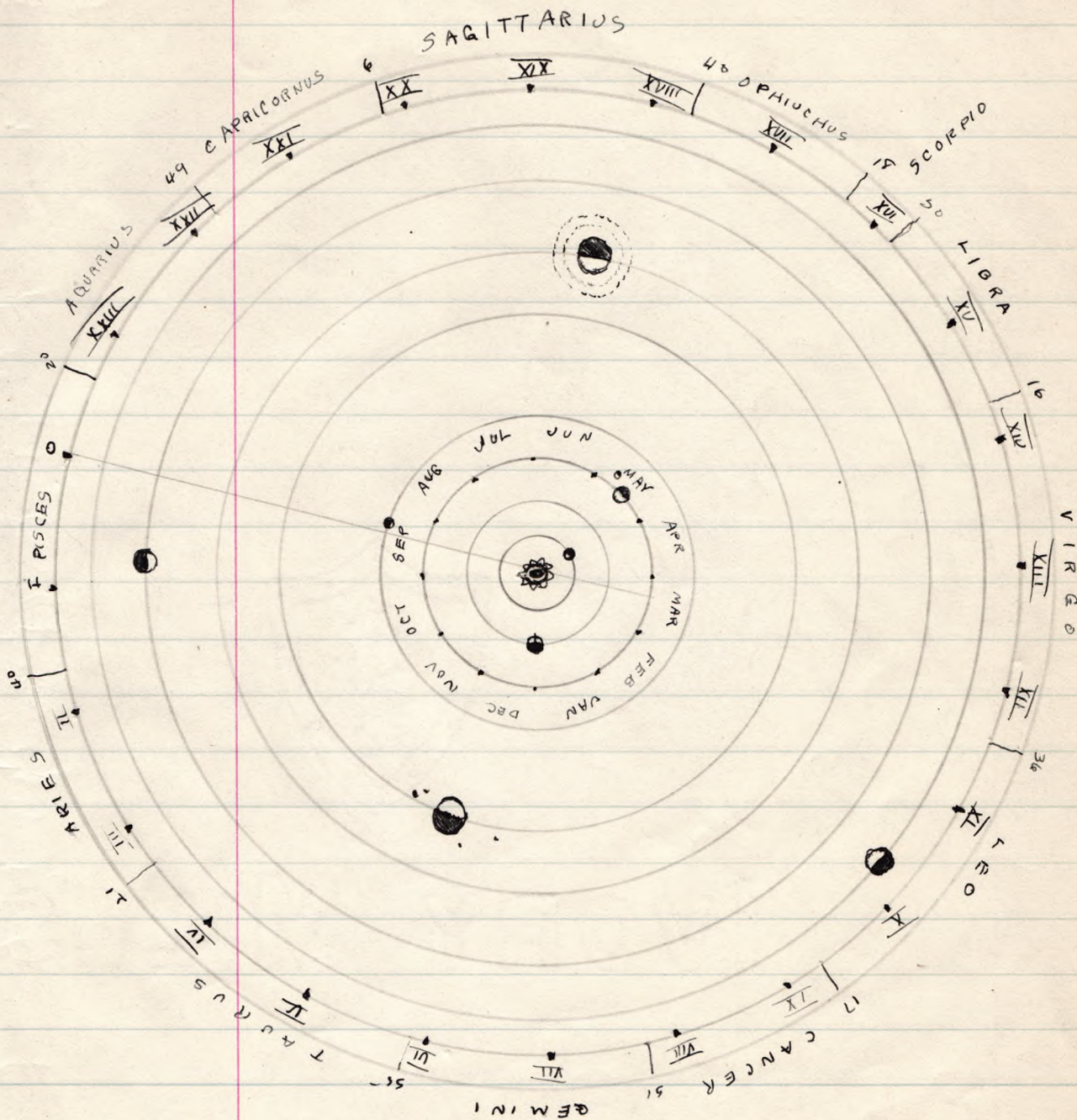


APRIL 15,

1930

1930

MAY 15th

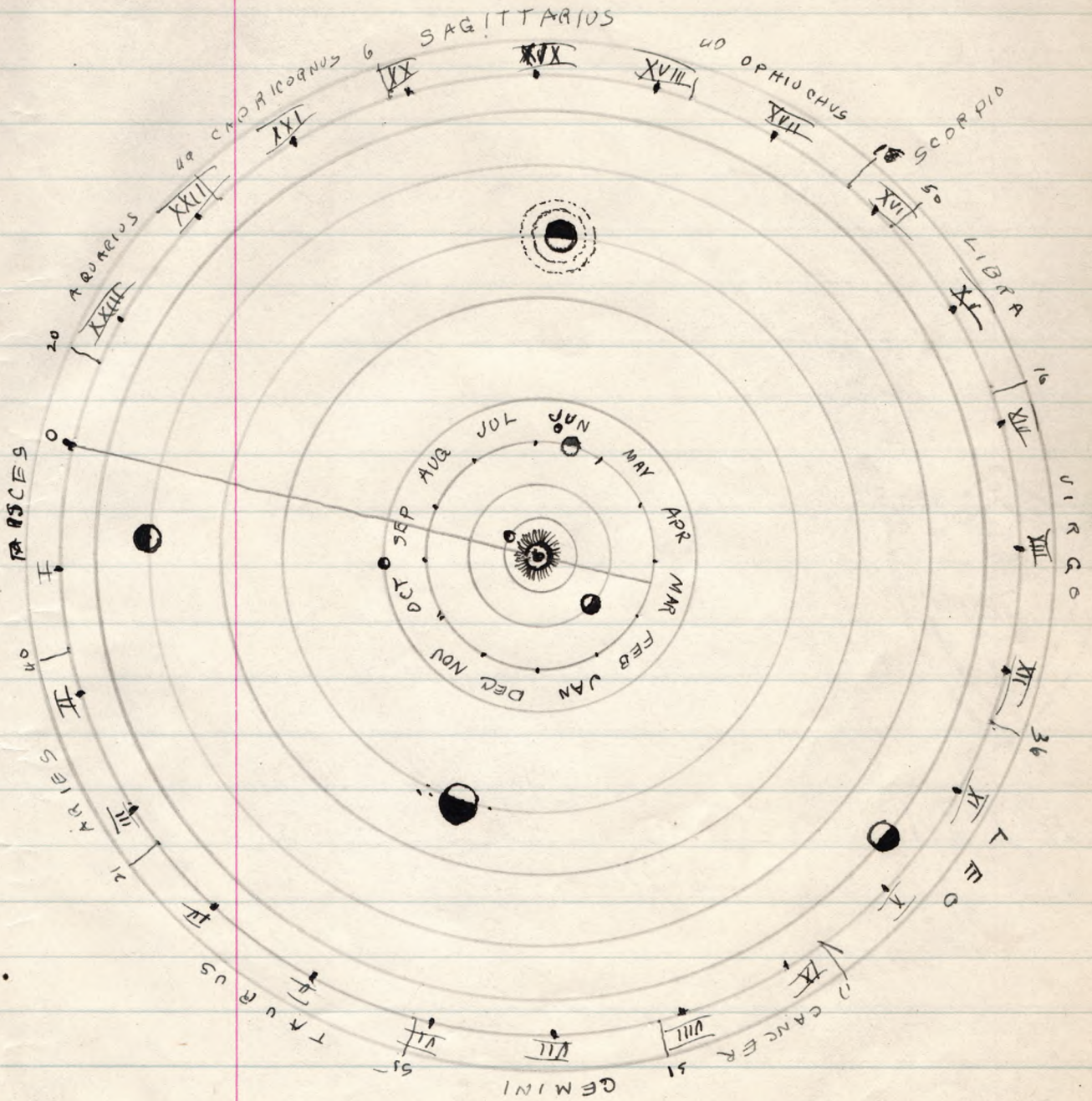


MAY 15

1930 MAY 1930

1930

JUNE 15

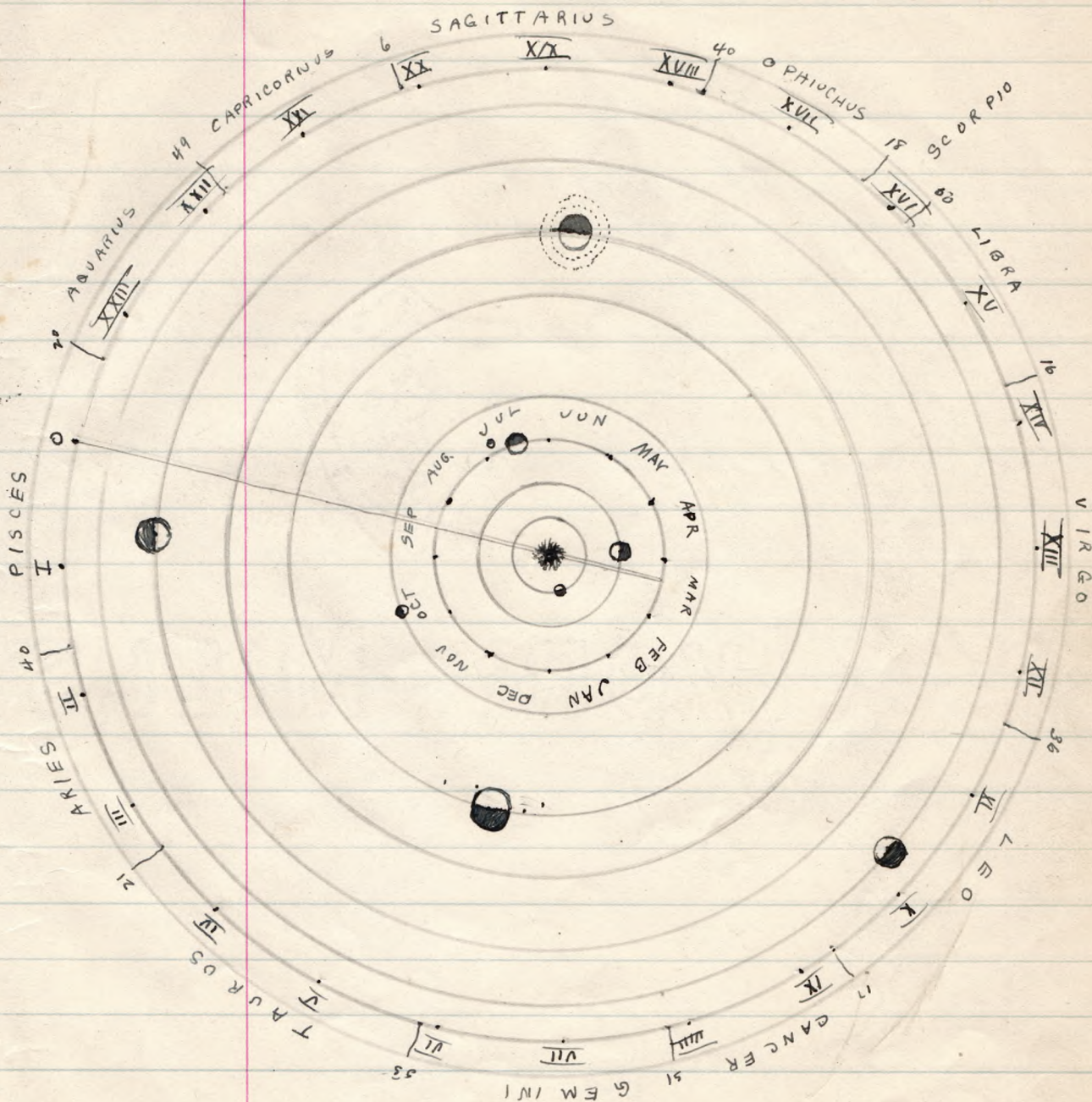


JUNE 15

1930

1930

JULY 15

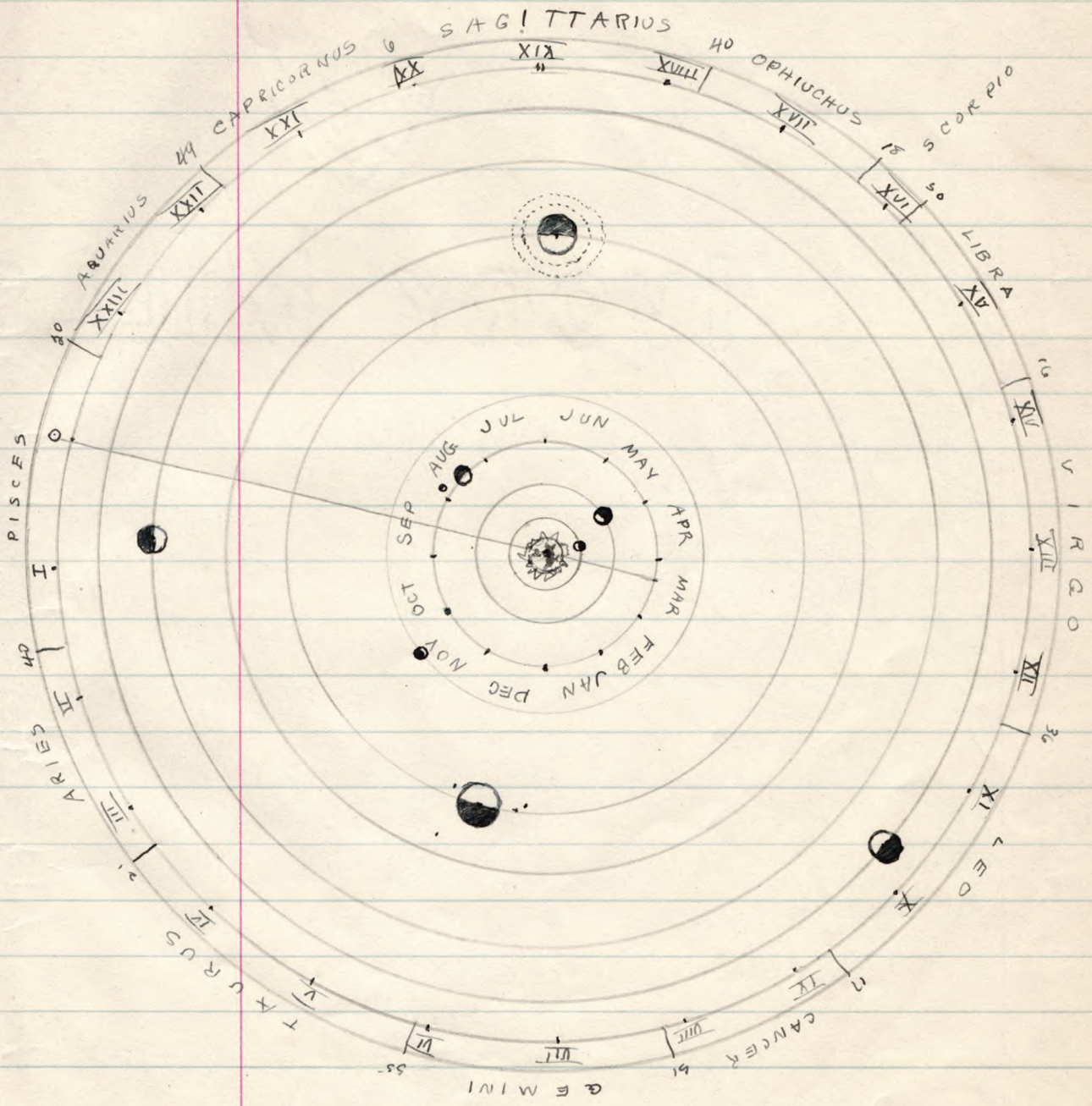


JULY 15

1930

1930

AUGUST 15

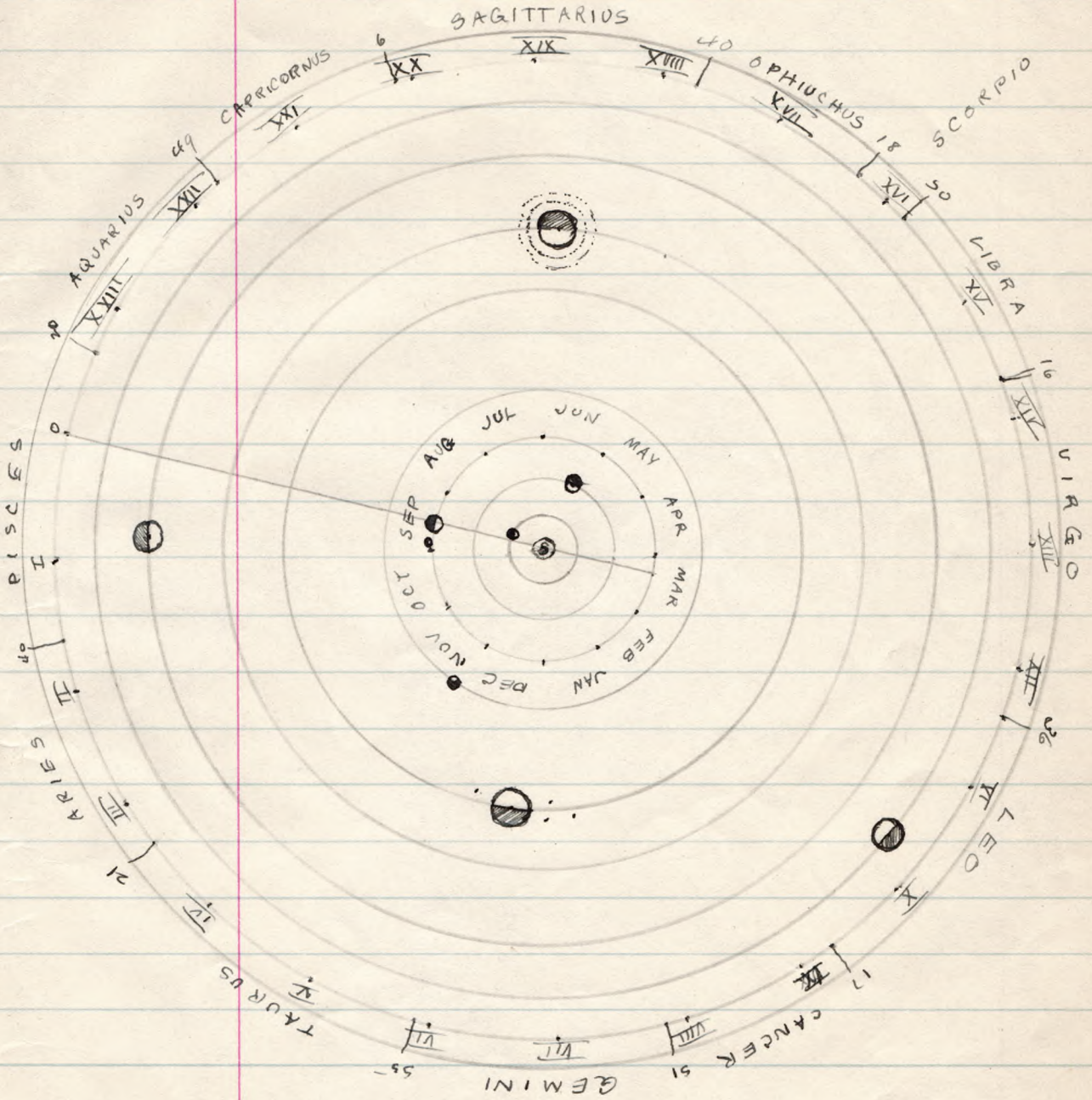


AUGUST 15

1930

1930

SEPTEMBER 15

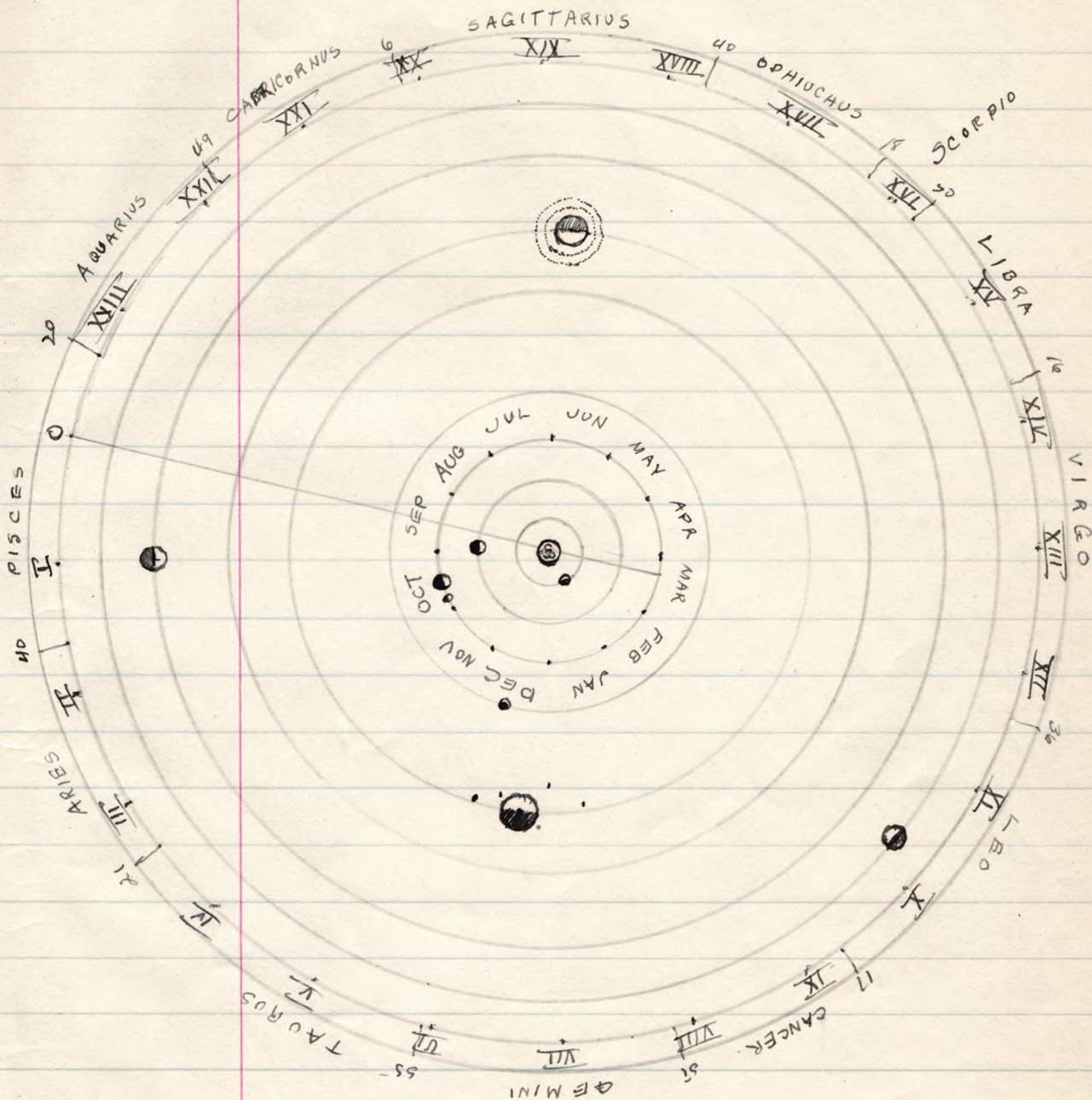


SEPTEMBER 15

1930

1930

OCTOBER 15

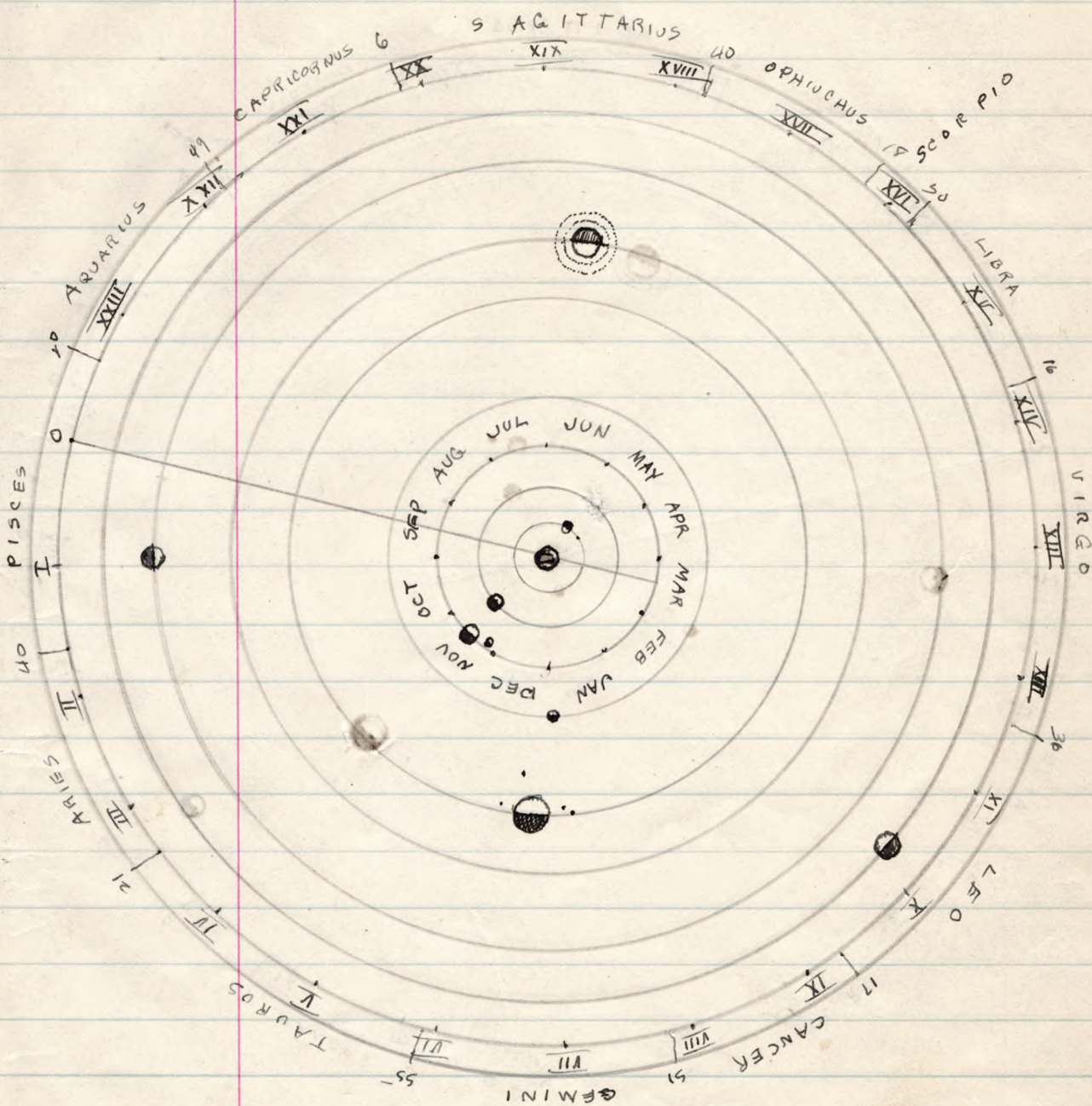


1930

OCTOBER 15

1930

NOVEMBER 15

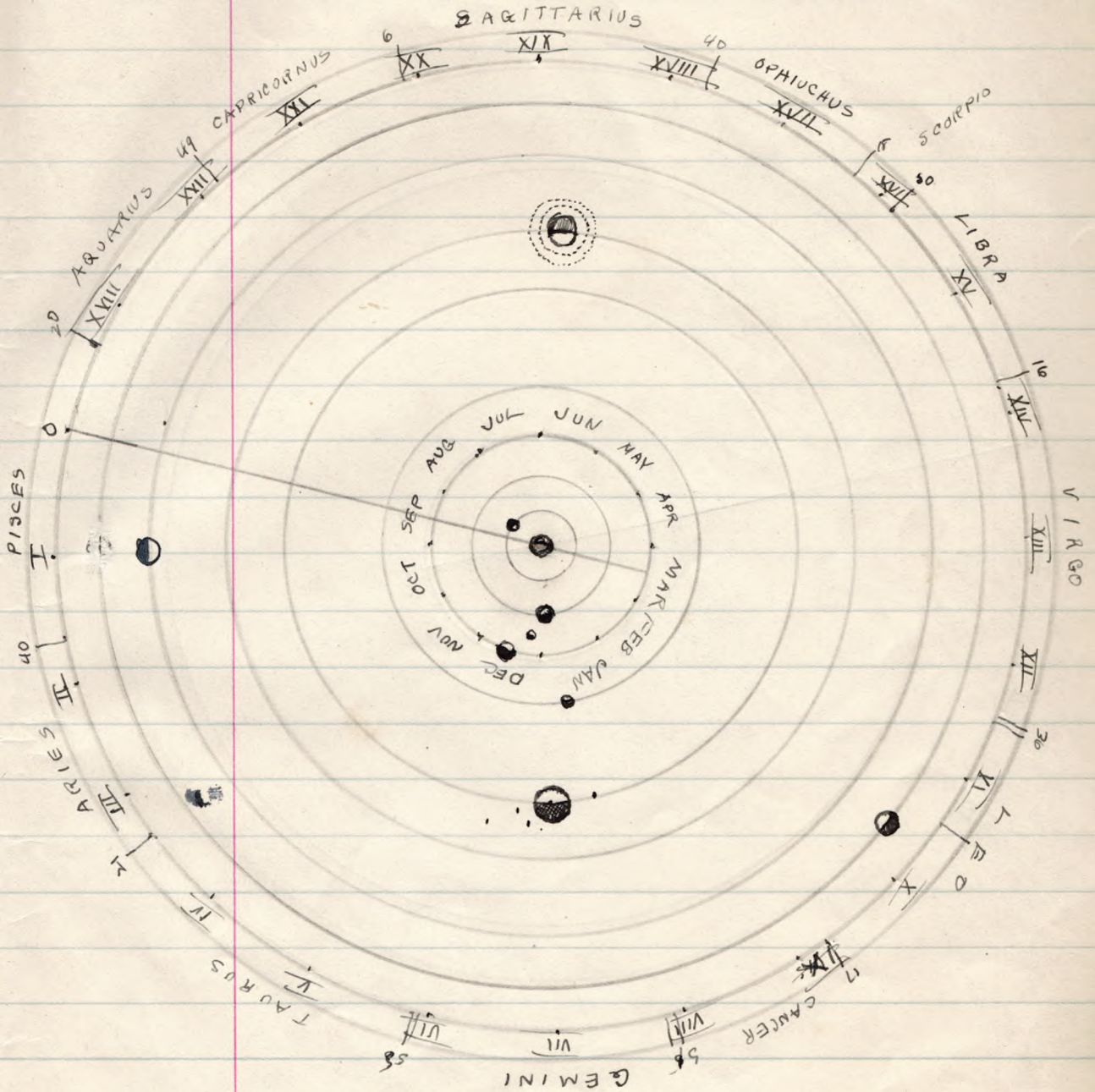


1930

NOVEMBER 15

1930

DECEMBER 15,



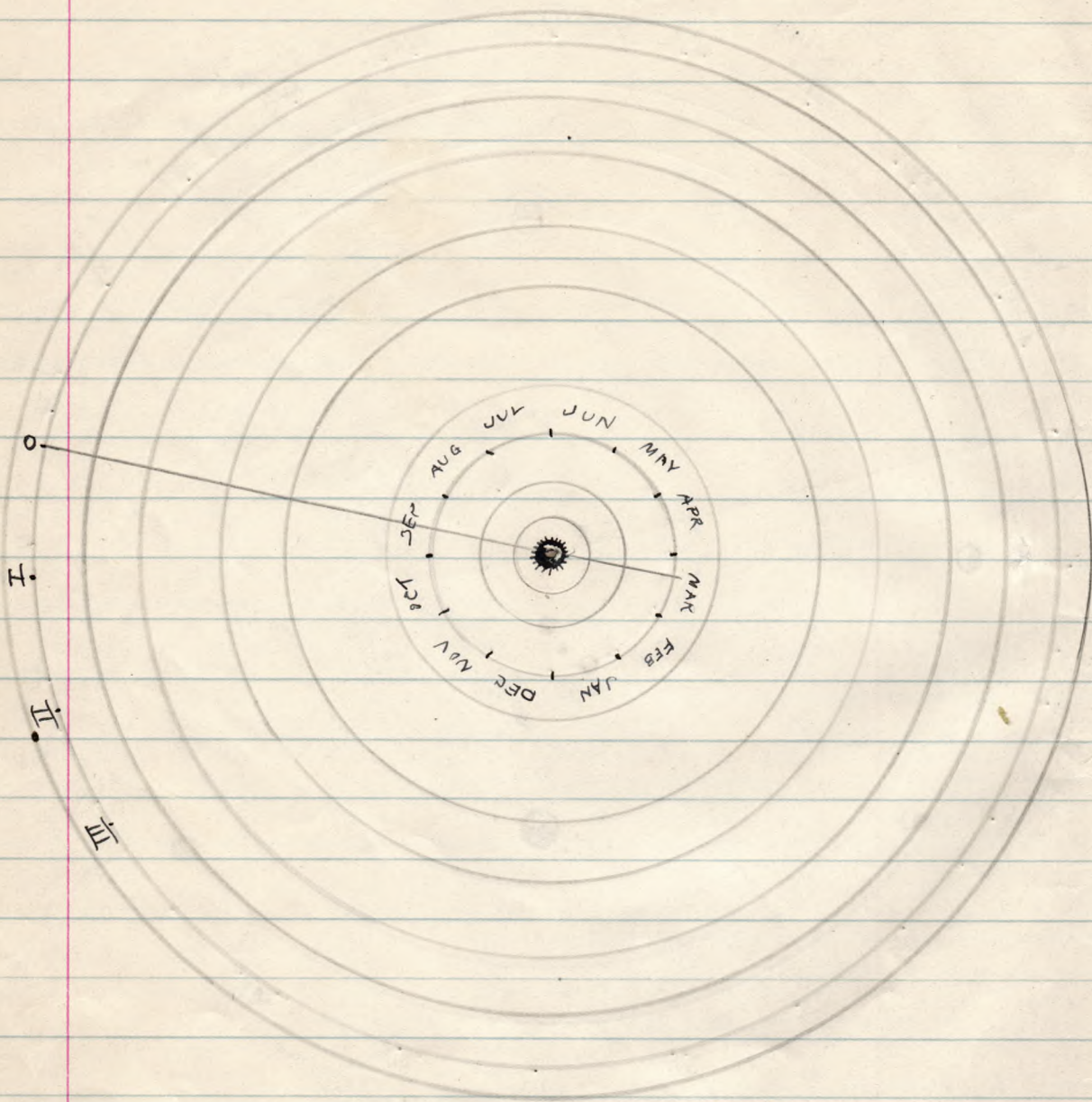
DECEMBER 15,

1930

MAY

1932

MAY 15



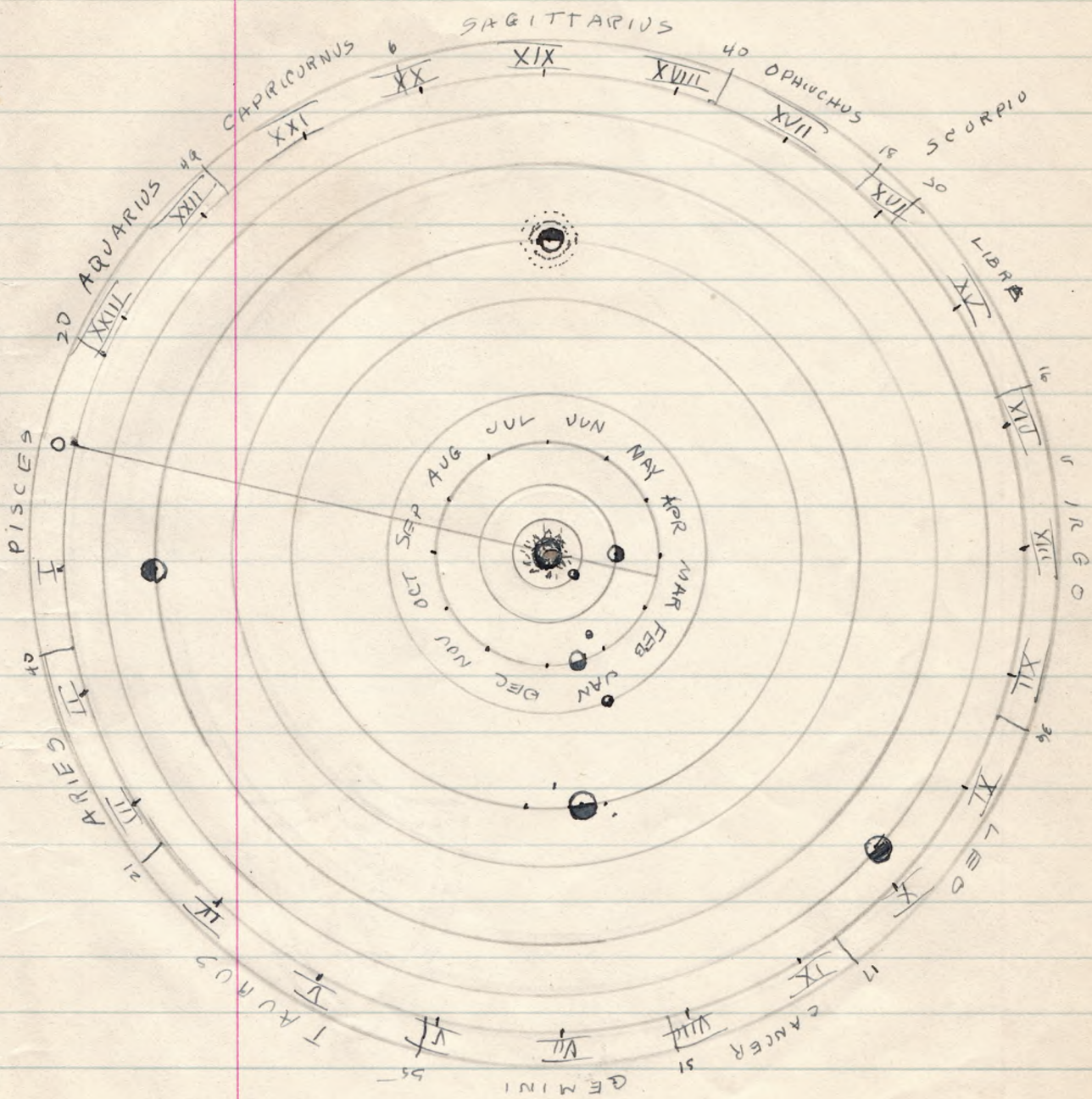
MAY

1932

MAY

1931

JANUARY 15



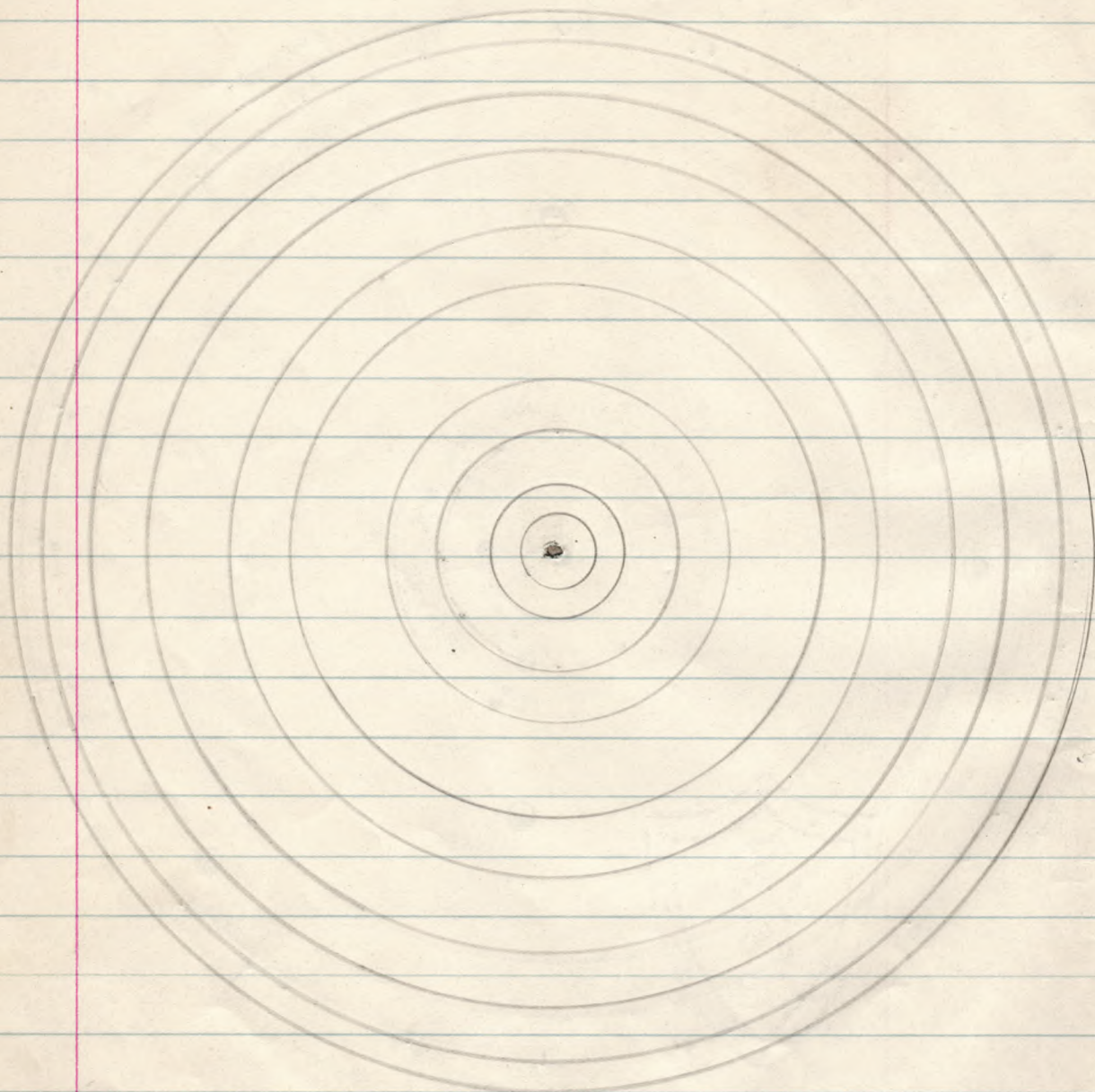
JANUARY 15

1931

APRIL

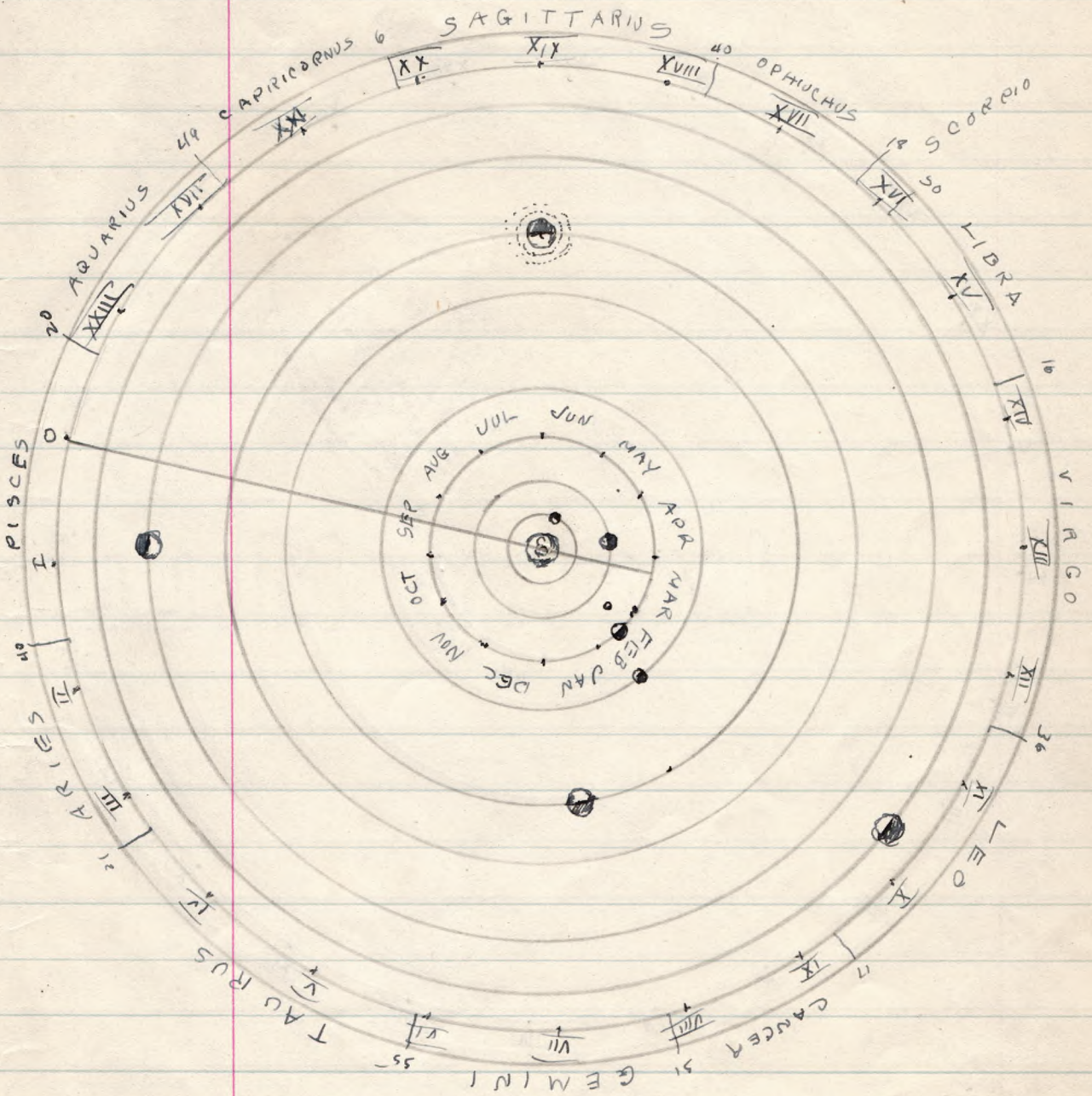
1932

APRIL 15



1931

FEBRUARY 15



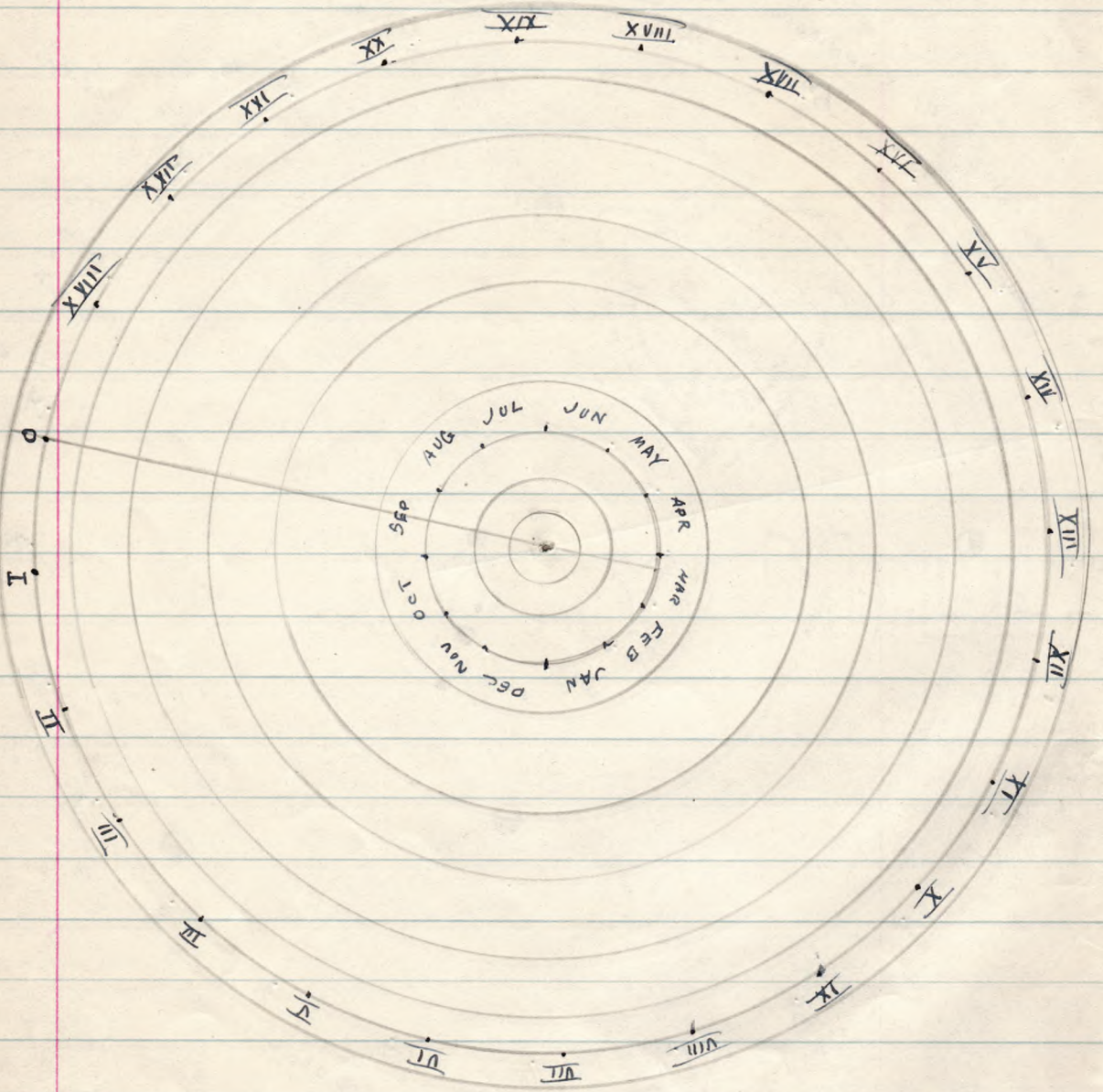
FEBRUARY

1931

MARCH

1932

MARCH 15



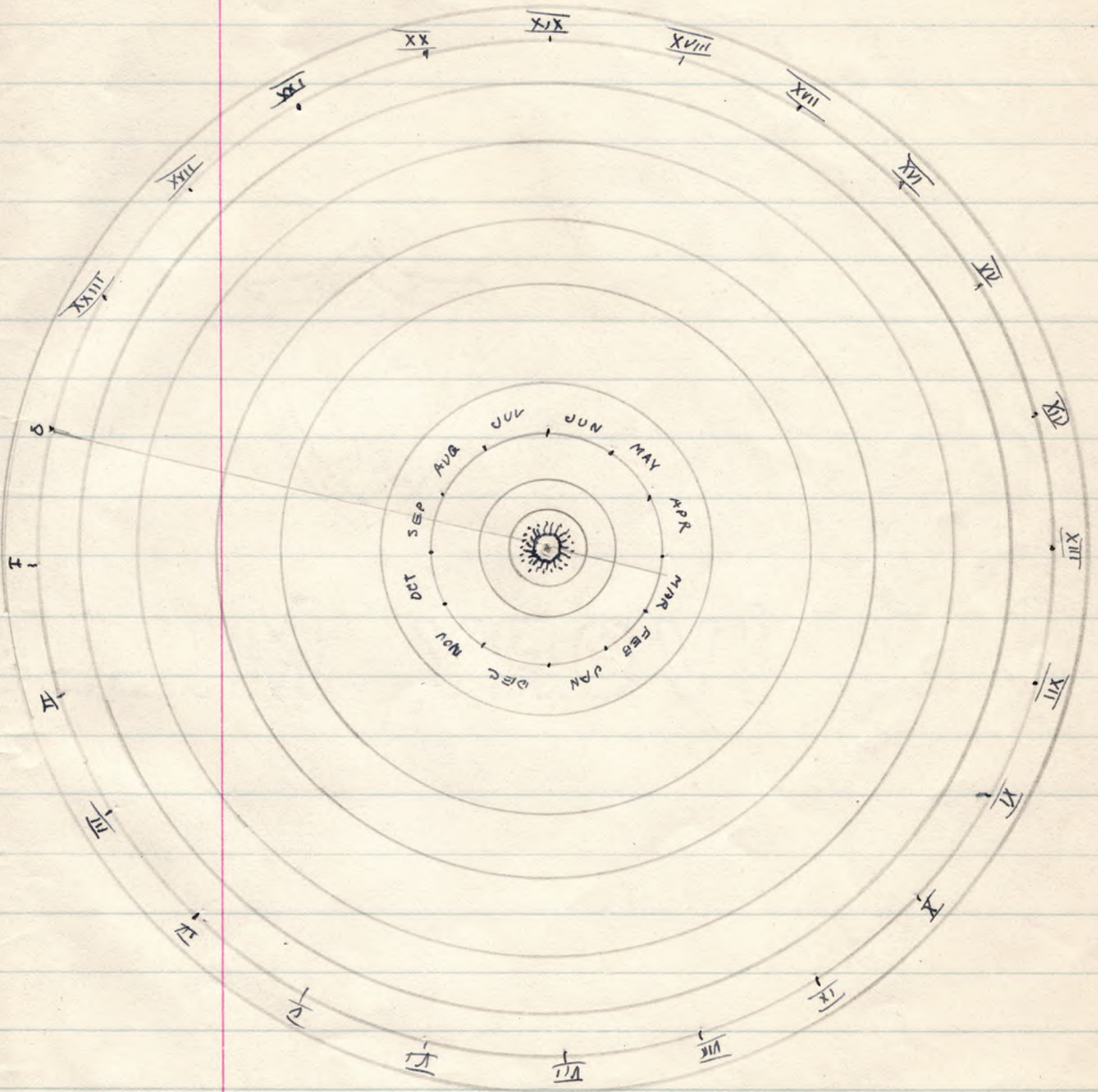
MARCH 15

1932

MARCH

1931

MARCH 15



MARCH 15

1931

1932

FEBRUARY 15

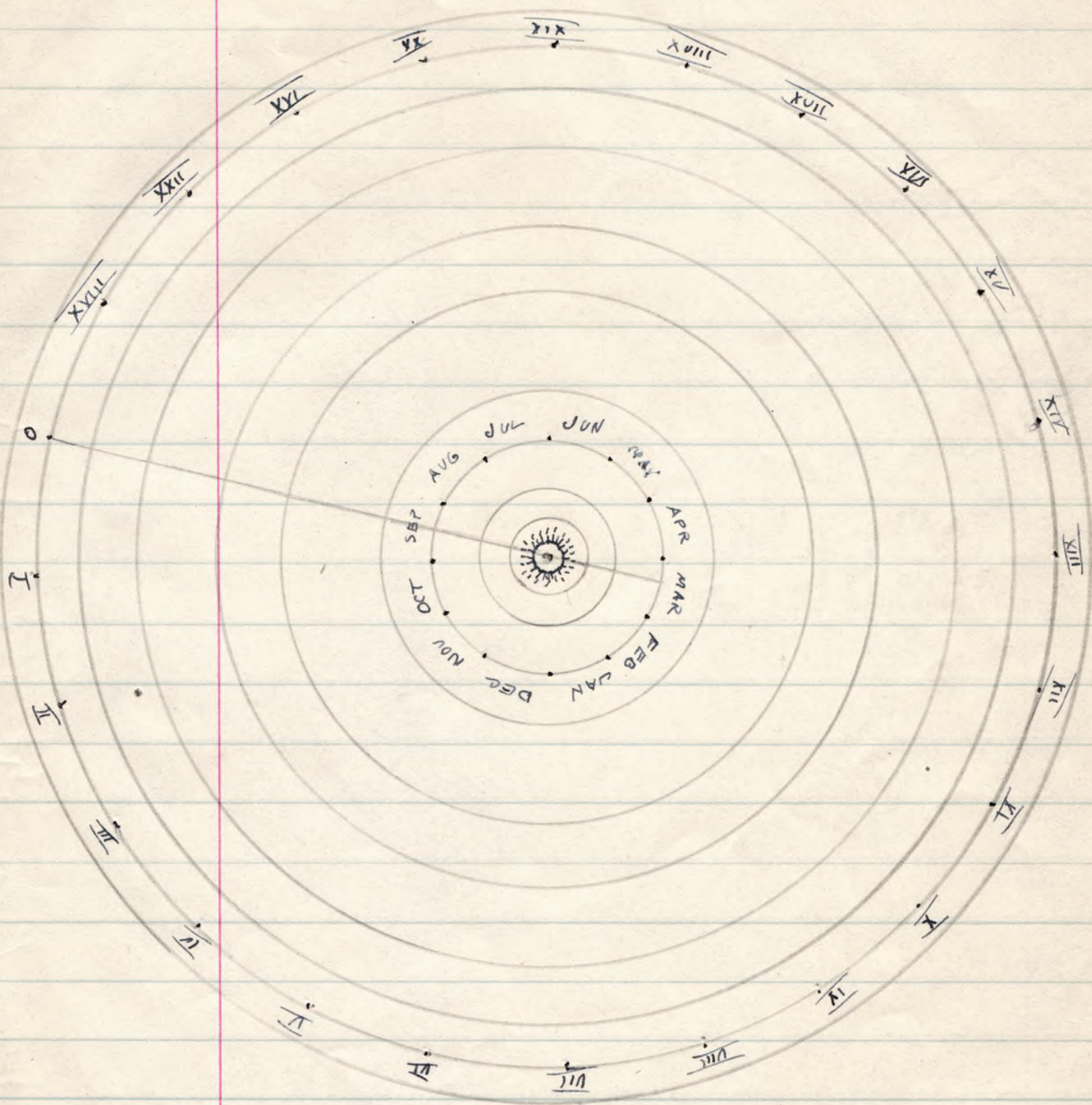
1931

VI

APRIL

1931

APRIL 15



APRIL 15

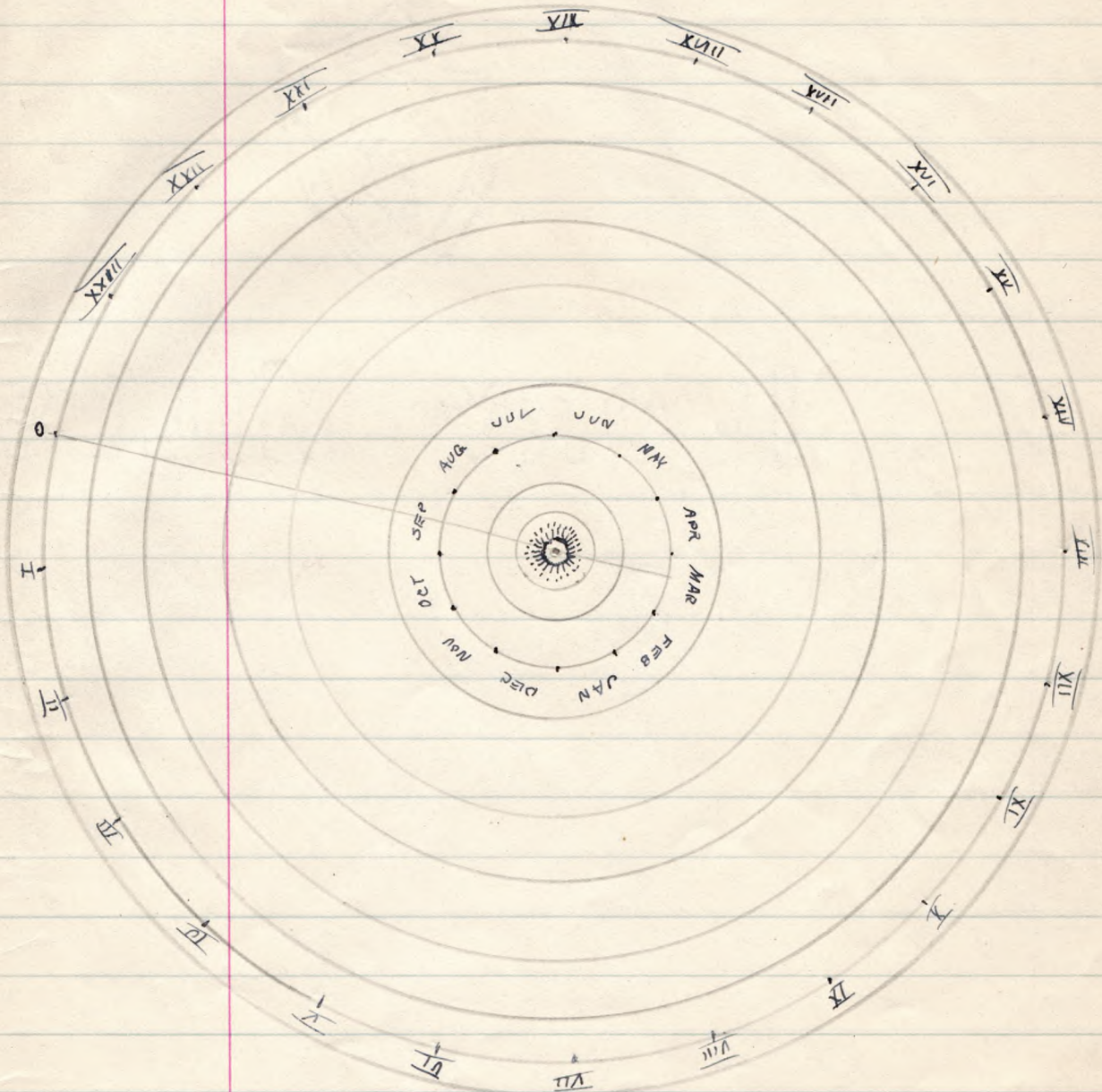
1931

1932

JANUARY 15

1931

MAY 15



MAY 15

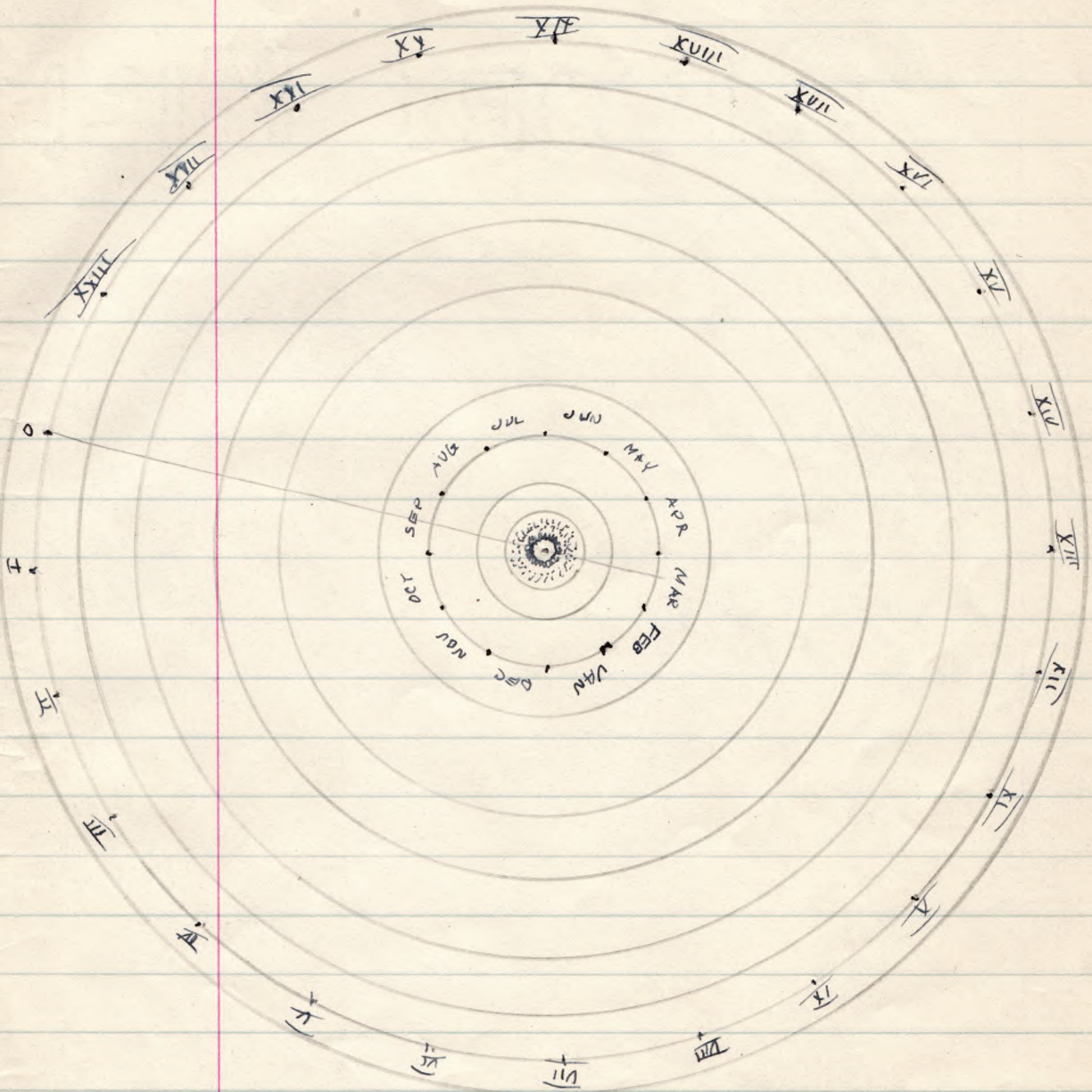
1931

1931

DECEMBER 15

1931

JUNE 15



JUNE 15

1931

1931

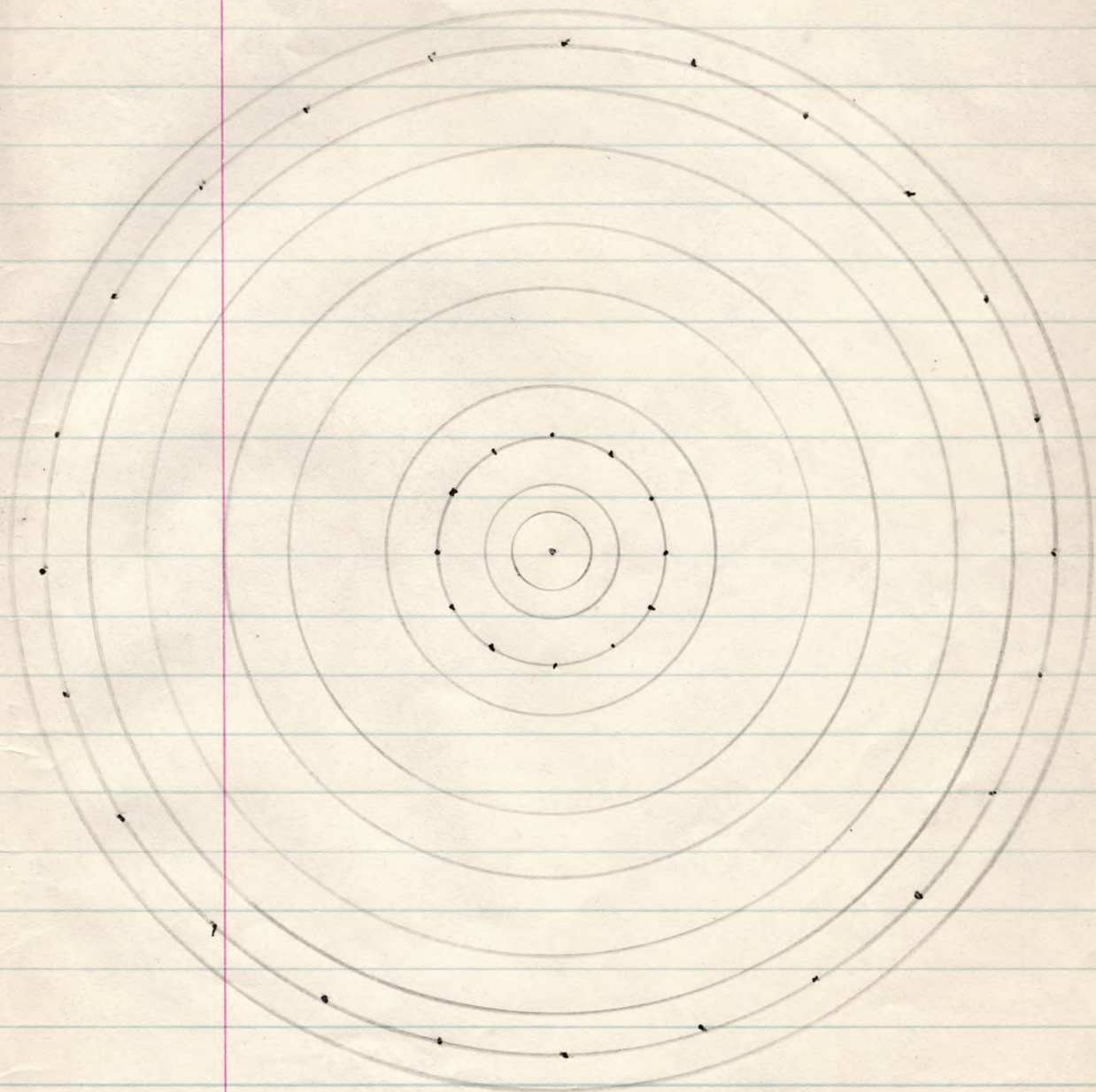
NOVEMBER 15

1931

NOVEMBER 15

1931

JULY 15



15

JULY

1931

1931

OCTOBER 15

1931

AUGUST 15



AUGUST 15

1931

1931

SEPTEMBER 15

1931

SEPTEMBER

1931