

though I am far from ascribing to mine the value I could wish with more time.

The result of both gives for the rotation period of Uranus $10\frac{3}{4}$ hours in a retrograde direction.—PERCIVAL LOWELL.

[*The Observatory.*

Memoranda for Observers.

Standard Time of India is adopted in these Memoranda.

For the month of August 1912.

Sidereal time at 8 p.m.

			H.	M.	S.
<i>August 1st</i>	16	39 19
.. <i>8th</i>	17	6 55
.. <i>15th</i>	17	34 30
.. <i>22nd</i>	18	2 6
.. <i>29th</i>	18	29 42

From this table the constellations visible during the evenings of August can be ascertained by a reference to their position as given in the Star Chart.

Phases of the Moon.

			H.	M.
<i>August 6th</i>	Last Quarter	..	..	9 48 A.M.
.. <i>13th</i>	New Moon	..	..	1 28 A.M.
.. <i>19th</i>	First Quarter	..	..	10 27 P.M.
.. <i>28th</i>	Full Moon	..	..	1 29 A.M.

Meteors.

	R. A.	Dec.	Character.
<i>July—September</i>	335°	+73°	Swift, short.
<i>July—August</i>	339	—27	Slow, long.
<i>July—August</i>	280	+57	Slow, short.
<i>August 10th—12th</i> <i>The Perseid shower</i>	} 45	+57	Swift, streaks.
<i>August 15th</i>			
<i>„ 15th—25th</i>	291	+60	Slow, bright.
<i>„ 25th</i>	5	+11	Slow, short.
<i>August—October</i> <i>2nd.</i>	346	0	Slow.
<i>„ „</i>	74	+42	Swift, streaks.

Planets.

Venus.—Is an evening star. The position of this planet on the 15th August at 8 P.M. will be R. A. 10 h. 23 m. 57 s. Dec. 11°-33'-52" N. The time of its setting on the 15th August will be 6 h. 47 m. P.M.

Saturn.—The position of this planet on the 15th August at 8 P.M. will be R. A. 4 h. 6 m. 22 s. Dec. 18°-48'-50" N. The time of its rising on the 15th August will be 11 h. 31 m. P.M.

Mars.—The position of this planet on the 15th August at 8 P.M. will be R. A. 11 h. 18 m. 47 s. Dec. 5°-22'-16" N. The time of its setting on the 15th August will be 7 h. 32 m. P.M.

Jupiter.—The position of this planet on the 15th August at 8 P.M. will be R. A. 16 h. 16 m. 2 s. Dec. 20°-44'-58" S. The time of its setting on the 15th August will be 11 h. 44 m. P.M.

For the month of September 1912.

Sidereal time at 8 p.m.

			H.	M.	S.
<i>September</i>	<i>1st</i>	..	..	18	41 32
	<i>8th</i>	..	..	19	9 8
	<i>15th</i>	..	..	19	36 44
	<i>22nd</i>	..	..	20	4 20
	<i>29th</i>	..	..	20	31 55

From this table the constellations visible during the evenings of September can be ascertained by a reference to their position as given in the Star Chart.

Phases of the Moon.

			H.	M.
September	4th	Last Quarter	..	.. 6 53 P.M.
„	11th	New Moon	..	.. 9 19 A.M.
„	18th	First Quarter	..	.. 1 25 P.M.
„	26th	Full Moon	..	.. 5 4 P.M.

Meteors.

	R. A.	Dec.	Character.
July—September	335°	+73°	Swift, short.
September 3rd—8th	353	+39	Very swift.
„ 5th—15th	62	+36	Swift, streaks.
„ 6th—17th	106	+52	Swift, streaks.
„ 15th	77	+57	Swift, streaks.
„ 21st	31	+19	Slow, trains.
„ 21st—27th	87	+43	Swift, streaks.
„ 27th	4	+28	Slow, trains.
August—October 2nd	346	0	Slow.
„ „	74	+42	Swift, streaks.

Planets.

Venus.—Is an evening star. The position of this planet on the 15th September at 8 P.M. will be R. A. 12 h. 44 m. 52 s. Dec. 3°-49'-28" S. The time of its setting on the 15th September will be 6 h. 40 m. P.M.

Saturn.—The position of this planet on the 15th September at 8 P.M. will be R. A. 4 h. 10 m. 9 s. Dec. 18°-53'-41" N. The time of its rising on the 15th September will be 9 h. 33 m. P.M.

Mars.—The position of this planet on the 15th September at 8 P.M. will be R. A. 12 h. 31 m. 41 s. Dec. 2°-46'-23" S. The time of its setting on the 15th September will be 6 h. 29 m. P.M.

Jupiter.—The position of this planet on the 15th September at 8 P.M. will be R. A. 16 h. 26 m. 47 s. Dec. 21°-16'-20" S. The time of its setting on the 15th September will be 9 h. 52 m. P.M.

For the month of October 1912.

Sidereal time at 8 p.m.

			H.	M.	S.
October 1st	20	39 49
„ 8th	21	7 24
„ 15th	21	35 0
„ 22nd	22	2 36
„ 29th	22	30 12

From this table the constellations visible during the evenings of October can be ascertained by a reference to their position as given in the Star Chart.

Phases of the Moon.

			H.	M.
October 4th	Last Quarter	..	..	2 18 A.M.
„ 10th	New Moon	..	..	7 11 P.M.
„ 18th	First Quarter	..	..	7 36 A.M.
„ 26th	Full Moon	..	..	8 1 A.M.

Meteors.

	R. A.	Dec.	Character.
October 2nd	230°	+52°	Slow, bright.
„ 4th	310	+79	Slow.
„ 8th	77	+31	Swift, streaks.
„ 8th—14th	45	+58	Small, short.
„ 14th	133	+68	Rather swift.
„ 15th	31	+9	Slow.
„ 18th—20th (Important).	92	+15	Swift, streaks.
„ 23rd	100	+13	Swift, streaks.
„ 29th	109	+23	Very swift.

Planets.

Venus—Is an evening star. The position of this planet on the 15th October at 8 p.m. will be R. A. 15 h. 4 m. 54 s. Dec. 17°-44'-15" S. The time of its setting on the 15th. October will be 6 h. 38 m. p.m.

Saturn.—The position of this planet on the 15th October at 8 P.M. will be R. A. 4 h. 7 m. 4 s. Dec. $18^{\circ}-40'-57''$ N. The time of its rising on the 15th October will be 7 h. 32 m. P.M.

Mars.—The position of this planet on the 15th October at 8 P.M. will be R. A. 13 h. 45 m. 38 s. Dec. $10^{\circ}-34'-23''$ S. The time of its setting on the 15th October will be 5 h. 32 m. P.M.

Jupiter.—The position of this planet on the 15th October at 8 P.M. will be R. A. 16 h. 46 m. 16 s. Dec. $22^{\circ}-0'-1''$ S. The time of its setting on the 15th October will be 8 h. 12 m. P.M.

For the month of November 1912.

Sidereal time at 8 p.m.

			H.	M.	S.
November	1st	.. ..	..	22	42 2
„	8th	.. ..	..	23	9 38
„	15th	.. ..	..	23	37 14
„	22nd	.. ..	..	0	4 49
„	29th	.. ..	..	0	32 25

From this table the constellations visible during the evenings of November can be ascertained by a reference to their position as given in the Star Chart.

Phases of the Moon.

			H.	M.
November	2nd	Last Quarter ..	..	9 8 A.M.
„	9th	New Moon ..	..	7 35 A.M.
„	17th	First Quarter ..	..	4 13 A.M.
„	24th	Full Moon ..	..	9 42 P.M.

Meteors.

	R. A.	Dec.	Character.
November 1st	43°	+22°	Slow, bright.
„ 2nd	58	+ 9	Slow, bright.
„ 5th to December 4th.	162	+ 58	Swift, streaks.
„ 10th— 12th.	133	+ 31	Very swift, streaks.
„ 14th— 16th.	150	+ 22	Swift, streaks.

		R. A.	Dec.	Character.
November	16th— 28th.	154	+41	Swift, streaks.
,,	20th— 23rd.	63	+23	Slow, bright.
,,	17th— 23rd.	25	+43	Very slow, trains.
,,	25th to December 12th.	189	+73	Rather swift.
,,	30th	190	+58	Swift, streaks.

The showers on the 14th to 16th and 17th to 23rd are celebrated Leonid and Andromedid Meteor showers respectively.

Planets.

Venus.—Is an evening star. The position of this planet on the 15th November at 8 P.M. will be R. A. 17 h. 45 m. 55 s. Dec. $25^{\circ}4'19''$ S. The time of its setting on the 15th November will be 7 h. 2 m. P.M.

Saturn.—The position of this planet on the 15th November at 8 P.M. will be R. A. 3 h. 58 m. 20 s. Dec. $18^{\circ}14'47''$ N. The time of its rising on the 15th November will be 5 h. 23 m. P.M.

Mars.—The position of this planet on the 15th November at 8 P.M. will be R. A. 15 h. 8 m. 41 s. Dec. $17^{\circ}37'19''$ S. The time of its rising will be 5 h. 35 m. A.M. on the 16th November.

Jupiter.—The position of this planet on the 15th November at 8 P.M. will be R. A. 17 h. 12 m. 50 s. Dec. $22^{\circ}42'21''$ S. The time of its setting on the 15th November will be 6 h. 35 m. P.M.

Notices of the Society.

Election of Members.

The attention of members is invited to Bye-Law No. 14, regulating the election of persons who desire to join the Society. It is hoped that those who are already members will induce others to join. Forms of application can be had from the Secretary.