

MONTLY NOTICES

OF THE

Astronomica Society of India

For the month of July 1920.

Standard Time of India is adopted in these Notes.

MEMORANDA FOR OBSERVERS.

BY P. C. BOSE ESQ.

Siderea time at 8 p.m.

		H.	M.	S.
July	1st	14	37	21.32
„	8th	15	4	57.22
„	15th	15	32	33.11
„	22nd	16		9.0
„	29th	16	27	44.89

From this table constellations visible in India during the evenings in July may be ascertained by a reference to a star chart, as the above hours of sidereal time represent the hours of Right Ascension on the meridian.

PHASES OF THE MOON.

July	8th	10—35.1	(A.M.)	Last Quarter
„	16th	1—54.5	(A.M.)	New Moon
„	23rd	12—49.9	(A.M.)	First Quarter
„	31st	4—48.8	(A.M.)	Full Moon
„	14th	5—53	(A.M.)	Perigee
„	27th	7—53	(P.M.)	Apogee

MONTHLY NOTICES.

CONJUNCTIONS.

July	6th	at	9-42	A.M.	with	Uranus	5°-50'	S.
"	16th		9-37	"	"	Venus	5°-59'	N.
"	17th		5-17	"	"	Mercury	1°-18'	"
"	17th		8-17	"	"	Neptune	5°-15'	"
"	18th		2-37	"	"	Jupiter	6°-6'	"
"	19th		9-9	"	"	Saturn	6°-41'	"
			11-34	"	"	Mars	0°-48'	"

POSITIONS ON THE 15TH.

	R. A. (H.M.S.)	Decl (° ')	Constellations		
			English Names	Indian Names	
Mercury	8-46-35	14-22-51	N	Cances	Karkat
Venus	7-52-15	21-56-55	"	"	"
Mars	13-57-18	13-20-34	S	Virgo	Tula
Jupiter	9-34-4	15-19-14	N	Leo	Singha
Saturn	10-43-44	9-59-11	"	"	"
Uranus	22-29-16	10-20-40	S	Aquarius	Meen
Neptune	8-52-4	17-36-14	N	Cances	Karkat

OBJECTS OF INTEREST.

BY REVD. A. C. RIDSDALE, MA., F.R.A.S., &C.

For July, 1920.

Nebulæ

	R. A.		Decl.	
	H.	M.	(° ')	
Nebula	16	10	-22°	41'
Cluster	15	12	+ 2°	33'
"	15	38	-37°	23'
Hercules Cluster	16	37	+36°	42'
Cluster	16	41	- 1°	14'

MONTHLY NOTICES

Variables.

	R. A.	Decl.	Range.
	H. M.	(' °)	
<i>R</i> Serpents	15 46	+15° 26'	5.6—13.0

Doubles.

	R. A.	Decl.	Distance.
	H. M.	(' °)	(")
<i>Zeta</i> Bootes	14 35	+14° 15'	1.0"
<i>Epsilon</i> Bootes	14 39	+27° 35'	2.6"
<i>Xi</i> Bootes { Red { Yellow }	14 45	+19° 36'	5.4"
44 Bootes	14 59	+48° 7'	4.8"
<i>Mu</i> -Bootes	15 19	+37° 47'	108.4"
<i>Delta</i> Serpents	15 29	+10° 56'	2.5"
<i>Xi</i> Libræ	15 57	-11° 3'	1.0"

Meteors.

For July, 1920.

Dates	R. A.	Decl.
	H. M.	(' °)
<i>July</i> 6 to 22	19 0	-13° 0'
" 8 to 31	21 0	+31° 0'
" 28	22 35	-11° 0'
" 22 to 27	22 20	+51° 0'
<i>July—August</i>	22 30	-12° 0'
<i>July—September</i>	22 20	+73° 0'

By far the most important display at the time of the year is that of the Preseids which are visible for about a month. The radiant is a moving one, varying from 1 hr.—15 mins. R. A. and 59° Decl. during the period from July 19 to August 16. The maximum display is about August 10 and 11, when from 50 to 70 meteors may be seen every hour. The radiant on August 11 is at 3 hr.—0 Min. R.A. and +57° Decl.