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Editor  
292-0107

april 77

WHAT'S GOING ON IN THE CLUB:

April 1 Olinder Center, 7:30 P.M. General Membership Meeting

Dr. Nothwang of N.A.S.A. will give us a presentation on the Venus Probe.

April 2 K-MART at McKee and Jackson, Astronomy Day-1 dusk to 10 P.M.

The Club will be at the parking lot location on saturday evening, come and bring you'r telescopes and friends.

April 3 The Rosicrucian Museum, corner of Park and Naglee, dusk to 10 P.M.

The publicity generated by the A.A.N.C. will focus on the 3rd. as Astronomy Day because of the partial lunar eclipse.

April 8 board meeting, my home, 7:30 P. M.

April 9 Los Gatos Red Cross, 8:00 P.M.

April 16 Fremont Peak State Park, & Skyline site. A.A.N.C. & club star\* parties

April 23 & 30 Los Gatos Red Cross, 8:00 P.M.

May 6 Olinder Center, 7:30 P.M. General Membership Meeting.

May 13 board meeting, Jim Van Nuland's home, 8:00 P.M.

May 14 Henry Coe State Park, dusk till dawn, Club field observing session.

The club now has it's own lock in use during scheduled observing sessions. To gain access to the sight a club member now may open the gate with the combination. The lock has gray tape wraped around it, and the combination is 4565. This is also the NGC number of the spectacular edge on galaxiein Coma Bernices.

May 28 Saratoga High School, dusk till 10 P.M., Public star party.

May 21-22 Big Bear, all weekend, The ANNUAL RIVERSIDE TELESCOPE MAKERS CONFERENCE.

This is the last issue of the bulletin with me as editor. I would like to thank everyone who helped me over the past year, especially Gerry and Jim who contributed their fine articles. I hope the next editor has as much fun as I did.

Gerry's double stars should return next month along with Ed's newz notz.

# occulting zone

## LUNAR OCCULTATIONS

Apr	PST/PDT*	Mag	Ill	El	CA	PA	Star, Notes
20	7:14:07D	6.9	6+	20	47S	127	
23	9:35:53D	7.5	27+	21	79N	85	
	9:52:15D	8.6	27+	17	41S	144	
	10:00:14D	7.9	27+	16	81S	104	
24	9:30:14D	8.3	36+	42	42S	147	Start PDT
	9:48:26D	3.6	36+	38	64N	73	λ Gem
	10:47:26R			27	50N	319	
	10:15:56D	8.7	36+	33	38N	47	
	11:51:51D	8.1	37+	14	35S	155	
25	9:20:52D	8.0	46+	51	86N	98	
	11:57:08D	6.4	47+	21	79N	91	
27	0:54:40D	7.6	57+	18	87N	103	A.M. Time
28	9:56:55D	6.6	76+	55	21S	119	SAO118443
29	10:41:42D	4.5	85+	51	49N	69	

\* Times are PM except as noted.

SAO118443: I've no information on this multiple star.

Remember to get this article out late in the month to catch some fine occultations, esp. λGem on the 24th. Try binoculars; let me know if you try and if you succeed.

## JUPITER

This is the last month for the Red Spot. I've had many fine views of the Spot, and will try to recover it in August or September. The Oct. 24 white spot was last seen Feb. 7. I presume it has died; no one has reported it since.

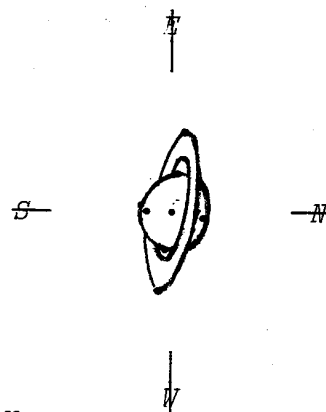
## SATURN

On the next page are daily tables with which you can draw maps of Saturn's moons. Proceed as follows. Cut out (or trace) the figure of Saturn. Paste it to the center of a sheet of quadrille paper, the E-W line the long way, north to the right.

Look at the data for desired day. The roman number refers to the satellite. The other two give the distances in millimeters. The letters N S E W refer to direction on the plotting sheet you've just made. For instance, on Mar. 31, Satellite IV (Dione) is east-southeast of Saturn, about as far from the center as the length of the rings. Plot each satellite in pencil; the next day you'll see how far each has moved. Satellites are omitted when unobservable. The chart scale is 50 arc-seconds per inch, and are for 10 PM local time.

Jim Van Nuland

Red Spot times				
da	mo	d	h	m
Su	4	3	8	26 PM
F	4	8	7	36 PM
F	4	15	8	25 PM



Num.	Name	Mag.	Scope	Period	Num.	Name	Mag.	Scope	Period
I	Mimas	12.1	10"	0.94d	V	Rhea	9.7	4"	4.52d
II	Enceladus	11.6	8-10"	1.37	VI	Titan	8.2	2"	15.97
III	Tethys	10.6	6-8"	1.89	VII	Hyperion	13.0	12"	21.32
IV	Dione	10.7	6"	2.74	VIII	Iapetus	8-12	6-10"	79.92

3 29 Tue.	IV 9S, 12W	III 4N, 22E	4 22 Friday	V 0S, 38E
I 3N, 13E	V 2N, 36W	IV 8S, 23W	I 2S, 14W	VI 7S, 94W
II 3S, 10E	VI 8S, 79E	V 13N, 16E	II 3N, 12W	VII 15N, 73W
III 6N, 19E	VIII 11N, 71W	VI 5N, 82W	III 6S, 9E	VIII 15S, 203W
IV 9N, 20E	4 6 Wed.	4 14 Thur.	IV 3S, 24E	5 1 Sunday
V 6S, 28E	I 3S, 13W	I 3N, 14E	V 13N, 18E	I 2N, 14E
VI 6S, 94W	III 5N, 12W	II 3S, 19W	VI 4N, 94E	II 2S, 15E
VIII 16N, 85E	IV 6N, 28E	III 6S, 21W	4 23 Sat.	III 5S, 22W
3 30 Wed.	V 12S, 27W	IV 2N, 29E	I 3S, 11W	IV 9N, 14E
II 4S, 17W	VI 3N, 94E	V 3N, 35W	II 5N, 16E	V 12N, 22E
III 7S, 16W	VIII 11N, 93W	VI 7S, 94W	III 5N, 13W	VI 18S, 93W
IV 3S, 30W	4 7 Thur.	4 15 Friday	IV 8N, 2W	5 2 Monday
V 10N, 35E	II 1N, 16W	III 6N, 18E	V 4N, 33W	II 5S, 13W
VI 17S, 93W	III 4S, 16E	IV 6N, 16W	VI 15N, 94E	III 6N, 20E
VIII 15N, 63E	IV 1N, 26W	V 12S, 28W	VII 26N, 119E	IV 5S, 29W
3 31 Thur.	V 7S, 26E	VI 17S, 93W	VIII 10S, 270W	V 5N, 31W
III 7N, 12E	VI 14N, 95E	4 16 Sat.	4 24 Sunday	VI 26S, 77W
IV 5S, 19E	VIII 9N, 114W	I 4N, 6E	III 4S, 14E	5 3 Tue.
V 10N, 15W	4 8 Friday	II 1N, 19E	IV 8S, 23W	II 3N, 11W
VI 25S, 79W	II 6N, 12E	III 7S, 15W	V 11S, 32W	III 7S, 17W
VIII 15N, 41E	III 2N, 19W	IV 9S, 8W	VI 23N, 81E	IV 2S, 24E
4 1 Friday	IV 8S, 6E	V 7S, 25E	4 25 Monday	V 11S, 33W
II 3N, 18E	V 10N, 36E	VI 26S, 77W	II 3S, 19W	VI 30S, 50W
III 8S, 9W	VI 23N, 81E	VII 30S, 14E	III 3N, 17W	VIII 16S, 153W
IV 9N, 5E	VIII 8N, 135W	VIII 2S, 254W	IV 2N, 29E	5 4 Wed.
V 7S, 41W	4 9 Sat.	4 17 Sunday	V 8S, 21E	II 4N, 16E
VI 30S, 52W	I 4S, 1E	III 7N, 12E	VI 28N, 54E	III 7N, 14E
VIII 15N, 18E	II 3S, 13E	IV 7N, 27E	4 26 Tue.	IV 8N, 3W
4 2 Sat.	III 1S, 21E	V 9N, 37E	III 2S, 20E	V 9S, 19E
I 3N, 7W	IV 9N, 18E	VI 30S, 50W	IV 5N, 16W	VI 30S, 15W
II 5S, 1E	V 10N, 13W	4 18 Monday	V 8N, 39E	VIII 16S, 134W
III 8N, 4E	VI 28N, 54E	II 0N, 17W	VI 28N, 19E	5 5 Thur.
IV 7S, 25W	VII 11N, 83W	III 8S, 8W	4 27 Wed.	III 8S, 10W
V 12S, 0E	VIII 7N, 154W	IV 0N, 27W	II 1N, 18E	IV 9S, 20W
VI 30S, 18W	4 10 Sunday	V 10N, 11W	III 0N, 22W	V 8N, 40E
VII 29N, 114E	II 5S, 15W	VI 30S, 16W	IV 9S, 8W	VI 26S, 21E
VIII 14N, 4W	III 1S, 22W	4 19 Tue.	V 11N, 7W	VIII 16S, 114W
4 3 Sunday	IV 4S, 29W	III 8N, 4E	VI 24N, 20W	5 6 Friday
II 2S, 19W	V 6S, 41W	IV 7S, 9E	4 28 Thur.	II 3S, 18W
III 7S, 0W	VI 28N, 19E	V 5S, 41W	III 1N, 23E	III 8N, 6E
IV 1N, 28E	4 11 Monday	VI 26S, 21E	IV 7N, 26E	IV 3N, 30E
V 2N, 41E	III 2N, 23E	4 20 Wed.	V 4S, 41W	V 11N, 4W
VI 26S, 18E	IV 4S, 22E	I 1N, 13W	VI 16N, 55W	VI 18S, 55E
VIII 13N, 27W	V 12S, 2W	II 2S, 15E	4 29 Friday	VIII 16S, 94W
4 4 Monday	VI 24N, 20W	III 7S, 1E	I 0S, 13E	5 7 Sat.
I 0N, 14W	4 12 Tue.	IV 9N, 15E	II 0N, 17W	I 1N, 13W
III 7N, 4W	I 0S, 14E	V 12S, 4W	III 2S, 23W	III 7S, 2W
IV 6N, 13W	II 4N, 17E	VI 18S, 55E	IV 0N, 27W	IV 5N, 19W
V 13N, 14E	III 3S, 23W	4 21 Thur.	V 13S, 8W	V 3S, 41W
VI 18S, 52E	IV 9N, 1E	I 1S, 15W	VI 5N, 82W	VI 7S, 80E
VIII 12N, 49W	V 2N, 40E	II 5S, 13W	4 30 Sat.	VIII 16S, 73W
4 5 Tue.	VI 16N, 55W	III 7N, 5W	I 1N, 15E	
I 2S, 15W	VIII 3N, 205W	IV 5S, 29W	II 6N, 10E	
II 0N, 18E	4 13 Wed.	V 1N, 40E	III 4N, 23E	
III 6S, 8E	I 1N, 15E	VI 7S, 80E	IV 7S, 10E	