SJAA EPHEMERIS

Partial Eclipse at Houge Park

Bob Havner

The June 10th eclipse at Houge Park was a huge success. The telescopes on telescope row were packed together as tight as possible. I don't know if there was an exact count but I would guess at least 30 scopes were set up throughout the park. I want to thank everyone who brought out their equipment and a special thanks to Juanita Ryan and her 5th grade class who brought a ton of food and drinks to share with the observers. — *Bob Havner,* bhavner@earthlink.net

Quite a crowd gathered at Houge Park for the June 10 partial solar eclipse. Photo by Alex Crichton.

Above: A family studies the solar projection from the long focus heliograph provided by Dwight Elvey and Chris Angelos. Below is the objective part of the heliograph, set up 115 feet away from the projection screen. Photos by Alex Crichton.

SJAA Activities Calendar

Jim Van Nuland

July

5-6 Glacier Point Star Parties.
6 Deep-Sky weekend. Sunset 8:28 p.m., 12% moon rises 3:26 a.m.
10-15 Shingletown Star Party
13 Deep-Sky weekend. Sunset 8:27 p.m.,18% moon sets 11:16 p.m.
19 Houge Park star party. Sunset 8:21 p.m., 81% moon sets 2:36 a.m.
20 ATM Class XI — Houge Park, 7:30 p.m.
27 **General Meeting:** Dr. Ken Lum, Optical Designer Bernhard V. Schmidt

August

1 ATM Class XII — Houge Park, 7:30 p.m.
2 Astronomy class VIII
2 Houge Park star party. Sunset 8:14 p.m., 33% moon rises 1:22 a.m.
3 Deep-Sky weekend. Sunset 8:10 p.m., 24% moon rises 2:00 a.m.
10 Deep-Sky weekend. Sunset 8:04 p.m., 8% moon sets 9:48 p.m.
16 Houge Park star party. Sunset 7:58 p.m., 69% moon sets 1:19 a.m.
17 ATM Class XIII — Houge Park, 7:30 p.m.
24 **General Meeting:** Juanita Ryan, Antarctica Meteor Trip
29 ATM Class XIII — Houge Park, 7:30 p.m.
30 Astronomy Class IX —Houge Park, 7:30 p.m.
30 Houge Park star party. Sunset 7:39 p.m., 50% moon rises 11:54 a.m.
31 Deep-Sky weekend.

September Meeting: Slide and Equipment Night

24 Hour News and Information Hotline: (408) 559-1221
www.sjaa.net

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Mooning

Things To Do

Dave North

I suppose a dedicated Loonie shouldn't admit to such a thing, but sometimes the full Moon just isn't all that interesting.

Sure, you can do the "ray tracing" thang, and sometimes you're picking up "good librations," but even so such observations rarely take more than a half hour or so. What to do?

This is a problem also faced by the Terminally Lunaphobic crowd (deepsky weasels), but we needn't concern ourselves about their constant whining. I'm convinced the first thing you have to do in order to be a proficient deepsky observer is learn to complain about every little thing, then use it as an excuse to stand around and gossip.

But the full Moon can be a great time to travel, if you're also interested in things other than astronomy, but who around here is? And what kind of astronomy trip can you make at the full Moon?

This May offered an interesting opportunity: RTMC. And I'm sure many SJAA members are curious about it, since it takes place on one of the worst travel weekends of the year, and is a long way to go.

At one time in the hazy past (a couple of years ago) RTMC stood for Riverside Telescope Makers Conference. It takes place at Camp Oakes, which is just above Big Bear Lake, which is nowhere near Riverside.

One of the many vendors at the 2002 RTMC Astronomy Expo. Photo by the author.

The main telescope field at this year's RTMC, with its notable features, direct sun and dust. Photo by the author.

I think the idea originally involved amateur builders showing off their craft, but increasingly this is less in evidence, but boatloads of professional builders show up — so the Telescope Makers part certainly works.

... The full Moon can be a great time to travel, if you're interested in things other than astronomy.

And it is a Conference.

But now it's called something else, I think RTMC Astronomy Expo — and the RTMC doesn't actually stand for anything officially any more. And it's incorporated or something. And it costs a little more than it used to. Otherwise, same old thing.

You might think the major reason to go is getting a look at all the cool new telescopes various manufacturers are offering, and to see what amateurs are up to these days. And, to some extent, you'd be right.

But the real point of going to RTMC is to hang out with all the other folks from all over the country who attend: it's a Gathering Of The Clans, and a great opportunity to visit with many of the wonderful folks who make up our hobby.

Oh, there were a few commercial innovations to check out this year. One side of the telescope field seemed literally littered with Coronado solar filters, and they are a great product.

My personal favorite for this year was the new Rigel Skylight/Starlight. I'm sure you've seen these flashlights in their original incarnation. The new version is completely redesigned, with a Great Big Knob for adjusting brightness, very easily used with gloves on. Great stuff! It's also water-resistant, which is certainly useful in heavy dew or the middle of a lake (such as the Big Bear Lake solar observatory).

There were probably some things I missed, but it seemed like not that much had happened in the commercial world, and perhaps even less in the amateur world. Many great scopes from previous RTMCs were there, but not much that was both new and remarkable. At the height of the event on Saturday afternoon, the telescope field where one usually sees new amateur work was nearly empty, and there were also significant gaps in the line of vendor booths.

Still, I'm told attendance was

Continued on next page

Mooning at RTMC

Continued from previous page

about normal, and there were about the usual number of entries in the telescope maker's competition.

It may just be that they were spread out all over the place rather than in "the field," as some folks claim.

I can easily understand, however, why someone would avoid setting up there (or, for that matter, bringing any nice optics to RTMC).

The dust.

There are three things you'll probably remember about RTMC if you ever go there: all the great people, the uncomfortable direct sun, and the dust. Definitely the dust.

The entire area is covered wth a fine grit, and tends to have winds anywhere from a gentle zephyr (with occasional dust devils) to gale-force blows that topple scopes. And those winds carry some of the finest abrasives known to man.

It gets everywhere. In your eyes, ears, nose and throat. And in your scope, if you take one — we never do anymore (or leave it in the car).

So that's basically what RTMC is all about. Give 'em your 20 bucks and hang out in a windy (often hot) dustbowl.

Or, more accurately, get in touch with some of the nicest — and most interesting — folks in the world.

It's the latter that brings us back, year after year.

ps: The devoted Loonie also has a problem of what to do at new Moon. In June, that was no problem. Just watch the eclipse!

Informally, hundreds of folks showed up at Houge Park, and it was great fun. Especially since the day was hot, and the eclipse gave us some cooling relief for a while.

Plus, it was a rare opportunity to look at the Dark Side Of The Moon.

Fun few weeks there!

— *Dave North*, north@znet.com

The ASP's 2002 Annual Meeting
The Cosmic Thread: From Stars to Life

Robert Naeye

Is life widespread through the cosmos, or is Earth a lonely oasis? The Astronomical Society of the Pacific cordially invites you to learn more about this fascinating topic by attending its 114th Annual Meeting, a series of exciting astronomy events to be held in the San Francisco Bay Area on September 28 and 29, 2002. The theme of this year's meeting is "The Cosmic Thread: From Stars to Life."

Event Schedule: On Saturday, September 28, the Society will be sponsoring a free public astronomy lecture by renowned comet discoverer and author David H. Levy. The lecture will be held at 7:30 p.m. in the amphitheater near the summit of Mt. Tamalpais in Marin County. Levy's talk is entitled "From Stars to Life: Suppose You Had to Design a Universe?" A free public star party, sponsored by the San Francisco Amateur Astronomers (SFAA), follows Levy's talk. Don't worry about bringing a telescope; SFAA members will be out in force!

On Sunday, September 29, the Society will host a full day of lectures by some of the world's leading astronomers. This lecture series is co-sponsored by the Astronomical Association of Northern California. We carefully selected this year's speaker lineup to focus on top-notch scientists who also excel at communicating their ideas and enthusiasm to the public. The lectures will run from 9:00 a.m. to 5:35 p.m. at Pimentel Hall on the University of California, Berkeley campus. Scheduled speakers include:

Alex Filippenko, ASP President, University of California, Berkeley

Geoff Marcy, University of California, Berkeley

Chris McKay, NASA's Ames Research Center

David Morrison, NASA's Ames Research Center

Jill Tarter, SETI Institute

Chris Impey, University of Arizona

Ben Zuckerman, University of California, Los Angeles

Seth Shostak, SETI Institute

After the lectures, we will hold a panel discussion. The panel will take questions from the audience, and the various speakers will debate issues discussed during their lectures. Seating is limited for the lecture series, so we encourage early registration.

Admission for the lecture series is: $35 general public, $30 ASP members, $25 students.

If you are an ASP member, we invite you to attend our annual member's meeting, which follows the panel discussion. Admission is free.

If that's not enough, from 7:00 to 10:00 p.m. the ASP will be hosting a reception at the UC-Berkeley Faculty Club, followed by a dinner banquet in the Heyns Room. Award-winning author and journalist Timothy Ferris will speak at the banquet. Following Ferris's talk, the ASP will present its 2002 Annual Awards, including the Society's prestigious Bruce Medal for lifetime achievement in astronomical research. Banquet seating is extremely limited, so please sign up now! Admission to the reception and banquet is $60.00. Non-ASP members are welcome to attend the reception and banquet.

For more details and for registration information, please visit the Society's website at: http://www.astrosociety.org/events/meeting.html

— *Robert Naeye*, rnaeye@astrosociety.org

Deep Sky for July

Mark Wagner

This month the best time to observe deep sky objects in the evening skies will be between July 6th and 13th. I'll concentrate on objects in Sagittarius, Cygnus, Vulpecula and Lyra that are well placed for observing during the two hours beginning at astronomical dark.

Start in Sagittarius with an easy object that performs well in most any telescope. M22 is one of the most rewarding globular clusters in the northern sky. It appears large and coarse compared to other popular globulars, and can be seen with binoculars or a finderscope. To find it scan 2 1/2 degrees ENE of Kaus Borealis, the top star in the Teapot. Many other interesting objects dot the area. Visit M28 and NGC6642, two other globulars close to M22. For more variety, from a dark sky, try the globular Palomar 9 just off nu Sagittarii. This entire area around Sagittarius and Scutum is so rich it is a great place to leisurely sweep with binoculars or a rich field telescope.

For a dark sky challenge object try Barnard's Galaxy, NGC6822. Find the area by starhopping from xi Sagittarii to rho Sagittarii, then extend beyond rho the same distance. See if you are able to glimpse some of the brighter sections of this low surface brightness galaxy. This is a tricky object, some describing it as no more than a subtle change in contrast in their eyepiece. Others detect H-II regions (like the Orion Nebula). It can actually be more easily seen in astronomical binoculars than with the narrower field and higher magnifications of a telescope. I usually look for the planetary nebula NGC6818 "The Little Gem" as a nearby landmark. Barnard's Galaxy is less than 1 degree SSW.

A good binocular object that responds well telescopically is M27, the famous Dumbell Nebula. Like NGC6818, M27 is a planetary nebula. Compare the two to see how varied planetaries can be. The Dumbell is a treasure of detail, especially in a dark transparent sky enhanced with an Ultra High Contrast (UHC) filter. Also try an O-III filter if you have one and note the difference. Look too for the central star, visible at magnitude 12.5. The Dumbell is easy to find. I think of its position as the "missing star" in a parallelogram formed by beta, gamma and epsilon Cygni. With an optical finder you'll have no trouble locating it as a hazy smudge.

While in the area use your binocular and move 8 degrees W to take in the "Coathanger"… a busy open cluster (a.k.a. Collinder 399). Enjoy the unusual straight edge along the northern side of the cluster. With your telescope, see if you can find NGC6602, a magnitude 8.8 open cluster at the eastern end of Coll 399.

How about another planetary nebula? NGC6826 is called the Blinking Planetary. With modest magnification you will see the small ball of nebulosity. Stare directly at the center of the object and the nebulosity disappears, replaced by the central star. Look away from the star and the nebulosity pops out again! Locate it by moving 1 ½ degrees W of theta Cygni, at the bend in Cygnus' western wing. Note too the nice equal double star 16 Cygni about 30" W of the planetary. In an undriven scope you can put the double star in the field and watch the planetary drift in. In a good dark sky with some aperture a pair of small galaxies can be seen just off 16 Cygni to the NNW.

The next object can be found classified as a supernova remnant, emission or reflection nebula. But I think of NGC6888 as a planetary nebula. It contains WR136, a super

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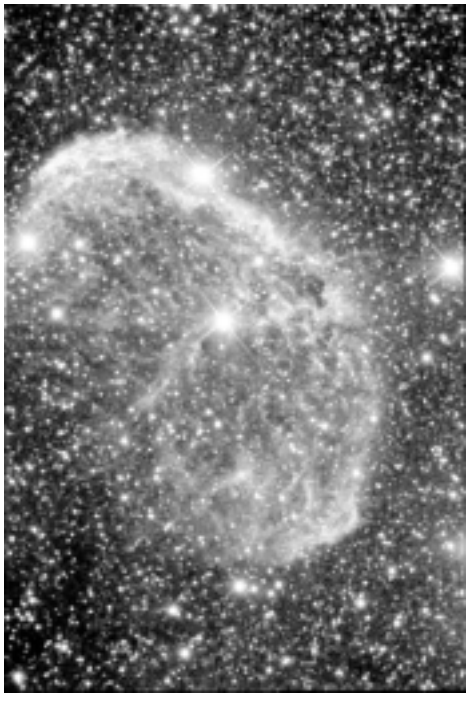

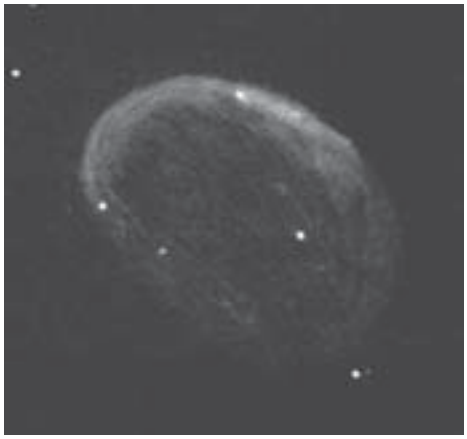

Here are three images of the Crescent Nebula, NGC6888. Far left, photographic image by Ray Gralak. Center above, a sketch by Bernd Nies. Right, a sketch through an 8-inch newtonian by Robert Kerwin.

Deep Sky for July

Continued from previous page

hot Wolf-Rayet star. The hot star is tearing apart the shell of material we see as nebulosity in moderate apertures under dark transparent skies. This egg shaped nebulous shell is known as the Crescent Nebula, and is striking in its beauty and detail. Note the brighter portions of the shell and the extension leading in toward the central star. Locate it by moving from gamma Cygni one third the way to eta Cygni. This egg shaped wreath of nebulosity responds well to UHC and O-III filters. Don't overlook the myriad of other deep sky wonders in the area — dark nebulae, planetaries, open clusters, reflection and emission nebulae — what a rich area!

We'll finish with epsilon Lyra, the famous "Double Double." Sharp eyes can split the main pair without optical aid. With optical aid the main pair are easily observed. Increasing magnification resolves the two stars into pairs. Two double stars of nearly equal brightness and separation in a single field of view!

Next month will include objects in Capricornus, Equuleus, Delphinus, Vulpecula, western portions of Aquarius and Pegasus, eastern Cygnus and western Cepheus. If you have suggestions or requests e-mail them to me at the address below.

This article is not intended to list just well known objects, but more a variety of interesting ones. To generate a more complete list of objects for this month, visit: http://www.messier45.com/cgi/tvo/listgen.cgi on the Internet. For July I used R.A. coordinates of 18.30 to 20.30 and declination -40 to +90.

If you are interested in trying or improving your deep sky observing, find me at Houge Park or email me. There is a very active contingent of deep sky observers in the area that are friendly, have a wide range of equipment, and are available to help beginners learn their way around.

— *Mark Wagner,* Mark.Wagner@observers.org

Starry Starry Nights in the Foothills

Don Machholz

An ambitious and impressive series of star parties will be held in the foothills area of Northern California during Labor Day Week. The public is invited. Astronomers are invited to join in to share the heavens through their telescopes.

It is called Starry Starry Nights (Seven Nites from Seven Sites) and will be held from Wednesday August 28 through Tuesday September 3. We will be at a different dark-sky site each night. We'll be highlighting the wonders of the Milky Way. The Colfax Greater Area Chamber of Commerce is sponsoring it and handling the publicity and logistics. I am responsible for finding the sites and organizing the astronomy end of it.

We begin at the Sugar Bowl Ski Resort and through the week we'll appear in the Foresthill area, Colfax, Big Bend, Dutch Flat and Soda Springs. These are dark areas and we'll highlight the Milky Way.

Astronomers who are willing to participate by showing the heavenly sights through their telescopes are asked to contact me in advance. Those coming through the Colfax area during that week are invited to an informal open house at my home and observatory.

Links:

Starry Starry Night Page: http://www.geocities.com/donmachholz/index.html

Colfax Greater Area Chamber of Commerce: http://www.colfaxarea.com/

Don Machholz (530) 346-8963 DonM353259@aol.com

Letters to the Ephemeris

No Ordinary Planisphere

Jim Van Nuland

In the May issue of the Ephemeris, you give some good tips for beginners wanting to learn the constellations, and point out the weakness of the ordinary planisphere.

It's true that the usual planispheres have tons of distortion anywhere beyond the equator, and are thus useless for the southern sky. But there is one exception: Dave Chandler's "Night Sky," available from Sky Publishing, Orion, and others.

Dave uses both sides of the star disc, with the back a polar projection centered on the south pole! Seen through a window on the back, the southern constellations appear realistic and very recognizable. He also uses such figures as the Teapot, Dipper, etc., so that it nicely matches the sky. I highly recommend it. Catch me at any meeting and I'll show it to you.

— *Jim Van Nuland,* jvn@svpal.org

Directions to Houge Park

Houge (rhymes with "Yogi") Park is in San Jose, near Campbell and Los Gatos. From Hwy. 17, take the Camden Avenue exit. Go east 0.4 miles, and turn right at the light, onto Bascom Avenue. At the next light, turn left onto Woodard Road. At the first stop sign, turn right onto Twilight Drive. Go three blocks, cross Sunrise Drive, then turn left into the park.

From Hwy. 85, take the Bascom Avenue exit. Go north, and turn right at the first traffic light, onto White Oaks Road. At the first stop sign, turn left onto Twilight Drive. You will now be passing the park. Turn right at the first driveway, into the parking lot.

Between the parking lot and tennis courts is a strip of grass where public star parties are held. The meeting hall is directly ahead (south) of the parking lot. There are restrooms on the other side of the the hall.

For directions to observing sites commonly used by SJAA members, visit the SJAA web site: http://www.sjaa.net/directions.html.

Davis Star Show, July 19-20

Jane Smith

For all telescope owners - the Davis Star Show needs your help!

Following the daytime activities at the Davis Star Show on Saturday, July 20th, there will be a public star party on the fields behind the Veterans' Memorial Center. We expect about 3,000 or more people, all eager to get a first-hand glimpse of the wonders of the night sky. We will need as many as 100 telescopes in order to handle the crowds which come to this popular event.

You can help! Bring your telescope to the Davis Star Party. Some child peering through your eyepiece may be inspired to become the next generation's great astronomer, or to become the next ardent amateur helping even more people see with their own eyes the things which keep us coming out under the stars and fighting for dark skies.

In order to allow visitors in these numbers to view as many things as possible, the telescopes will be arranged on the field by object types in marked areas. This will help insure that guests don't wait in lines to see the same object they just viewed in the last telescope. But, being telescope owners ourselves, we understand how independent amateur astronomers can be, so there will also be an area for mavericks who simply wish to roam the skies without pre-planning.

We are also extremely pleased to announce that due to the incredible generosity of Vic Maris of Stellarvue, we are able to award a Stellarvue 80/9D High Resolution Refractor to one lucky telescope volunteer. If you've ever been lucky enough to look through one of Vic's fine instruments, you will understand what a coveted prize this is. There will be a drawing at the end of the star party to see who the lucky winning amateur astronomer will be. You and you telescope must be present to win. Be sure to pick up your instruction sheet and ticket stub on the way in to the star party to set up. Good luck!

If you would like to help out, please contact Jane Smith at (530)758-4104 evgs/wknds or email her at jesmith@ucdavis.edu. The star party will begin at 8 p.m. and last until midnight or so. Set-up on the field begins at 7:00 p.m. and must be completed by 8 p.m. In order to respect the concerns of the owners of the surrounding soccer fields, we are asking that, once telescopes are unloaded, all vehicles be moved back to the parking areas. Vehicles must be kept off the grass between 8 p.m. and midnight.

The 2002 Davis Star Show webpage is now up and contains the program, speaker agenda, and contact information for the event. It can be reached at: http://www.DavisStarShow.org

— *Jane Smith* jesmith@ucdavis.edu

Editorial Opportunity

Astronomy magazine has an immediate opening for an associate editor. The ideal candidate will be an experienced amateur astronomer with strong writing and editing skills who intimately knows the hobby — telescopes, observing, and imaging. Enthusiasm for sharing the excitement of astronomy is a necessity.

For more information, visit the jobs section of our website at http://www.kalmbach.com/. The specific job is: http://corporate.kalmbach.com/kalmbach/jobs/jobs_opportunities.asp?action=details&job=50 Equal Opportunity Employer

Rita Miram, -2002

I would like to announce that my wife of 50 years Rita Miram, a long time member of SJAA whose health did not permit to be active in Astronomy, passed away on Sunday, June 9, 2002. For the last several years she just loved to read about the club and study *Sky and Telescope*. Six months ago we moved to the Sacramento area.

Sincerely, Harry Miram, hmiram@msn.com

Celestial Calendar July 2002

Richard Stanton

Lunar Phases:		Date	Rise	Trans	Set
LQ	10:19 PDT	02	01:04	07:07	13:18
NM	03:25 PDT	10	06:01	13:39	21:13
FQ	21:46 PDT	16	12:59	18:59	00:21
FM	02:06 PDT	24	21:05	01:16	06:12

Nearer Planets:				R. A.	Dec.
Mercury, 1.31 A.U., Mag. -2.0					
07	04:45	12:08	19:32	05:58.6	+22:56
17	05:34	12:58	20:22	07:27.4	+23:08
27	06:39	13:47	20:54	08:55.9	+19:11
Venus, 0.97 A.U., Mag. -4.8					
07	09:13	16:03	22:52	09:54.9	+14:24
17	09:30	16:05	22:40	10:37.2	+09:58
27	09:46	16:06	22:25	11:17.3	+05:12
Mars, 2.64 A.U., Mag. 1.7					
07	06:41	13:59	21:17	07:52.4	+22:03
17	06:34	13:47	20:59	08:19.4	+20:44
27	06:27	13:34	20:40	08:45.8	+19:11
Jupiter, 6.25 A.U., Mag. -1.8					
07	06:35	13:51	21:06	07:45.0	+21:33
17	06:07	13:21	20:35	07:54.4	+21:09
27	05:39	12:51	20:30	08:03.8	+20:44
Saturn, 9.89 A.U., Mag. 0.9					
07	04:14	11:31	18:48	05:25.4	+21:56
17	03:40	10:57	18:14	05:30.6	+22:00
27	03:05	10:23	17:40	05:35.5	+22:03

SOL Star Type G2V Intelligent Life in System ?

Hours of Darkness						
05:32	07	05:51	13:13	20:34	07:05.0	+22:36
05:50	17	05:57	13:14	20:30	07:45.7	+21:13
06:14	27	06:05	13:14	20:23	08:25.5	+19:15

Astronomical Twilight:		Begin	End
JD 2,452,462	07	03:58	22:26
472	17	04:49	22:18
482	27	04:21	22:07

Sidereal Time:

Transit Right Ascension at Local Midnight

07	00:00 = 17:52
17	00:00 = 18:32
27	00:00 = 19:11

Darkest Saturday Night: 06 July 2002

Sunset	20:34
Twilight	22:26
Moon Rise	02:48
Dawn Begin	03:58
Hours Dark	05:32

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Ephemeris Staff

Editor Jane Houston Jones (415) 453-2885
Editor Morris Jones (415) 453-2885
Circulation
Bob Brauer (408) 292-7695
Lew Kurtz (408) 739-7106
Dave North (408) 297-5257
Printing Accuprint (408) 287-7200

School Star Party Chairman

Jim Van Nuland (408) 371-1307

Telescope Loaner Program

Mike Koop (408) 446-0310

Web Page

Bill Arnett bill@nineplanets.org

SJAA Email Addresses

Board of Directors board@sjaa.net
Announcements announce@sjaa.net
Chat List chat@sjaa.net
Ephemeris ephemeris@sjaa.net
Circulation circulation@sjaa.net
Telescope Loaners loaner@sjaa.net
Members Email Lists:
http://www.sjaa.net/mailman/listinfo

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Submit
Submit articles for publication in the SJAA Ephemeris. Send articles to the editors via e-mail to ephemeris@sjaa.net.

SJAA Loaner Scope Status

All scopes are available to any SJAA member; contact Mike Koop by email (loaner@sjaa.net) or by phone at work (408) 473-6315 or home (408) 446-0310 (Leave message).

Available Scopes

These are scopes that are available for immediate loan, stored at other SJAA members homes. If you are interested in borrowing one of these scopes, please contact Mike Koop for a scope pick up at any of the listed SJAA events.

# Scope	Description	Stored by
8	14" Dobson	Dana Crom
23	6" Newt/P Mount	Wensheng Hua
24	60mm Refractor	Al Kestler
26	11" Dobson	Tajinder Singh
27	13" Dobson	Gene Schmidt
32	6" f/7 Dobson	Sandy Mohan

Scope Loans

These are scopes that have been recently loaned out. If you are interested in borrowing one of these scopes, you will be placed on the waiting list until the scope becomes available after the due date.

# Scope	Description	Borrower	Due Date
3	4" Quantum S/C	Hsin I Huang	7/8/02
6	8" Celestron S/C	Carl Ching	6/23/02
7	12.5" Dobson	Michael Lagae	7/19/02
11	Orion XT6 Dob	Wai Tuck-Low	4/27/02
12	Orion XT8 Dob	Tod Irwin	8/17/02
13	Orion XT6 Dob	Dennis Hong	7/5/02
14	8" f/8.5 Dob	John Templeton	7/5/02
15	8" Dobson	Kirkland Foo	8/17/02
16	Solar Scope	Bob Havner	8/18/02
19	6" Newt/P Mount	Peter Yoon	7/27/02
29	C8, Astrophotography	Mike Macedo	8/17/02
34	Dynamax 8" S/C	George Wang	6/30/02
35	Meade 8" Equatorial	Richard Savage	7/28/02

Extended Scope Loans

These are scopes that have had their loan period extended. If you are interested in borrowing one of these scopes, we will contact the current borrower and try to work out a reasonable transfer time for both parties.

# Scope	Description	Borrower	Due Date
1	4.5" Newt/ P Mount	Annette Reyes	7/18/02
2	6" f/9 Dob	John Paul De Silva	?
9	C-11 Compustar	Paul Barton	Indefinite
10	Star Spectroscope	Lew Kurtz	8/23/02
21	10" Dobson	Ralph Seguin	Repair
28	13" Dobson	Michael Dajewski	7/29/02
33	10" Deep Space Explorer	Sandy Mohan	7/18/02

Waiting List:

3	4" Quantum S/C	Eric Anderson
8	14" Dobson	Doug Hendrix
11	Orion XT6 Dob	Rajeev Joshi
12	Orion XT8 Dob	Tajinder Singh
13	Orion XT6 Dob	Lakshminarasimhan Venkatavaradan
32	6" f/7 Dobson	Vinod Nagarajan

Loaner Notes

Michael Dajewski is working on updating one of our Coulter Odessey scopes and has purchased a Novak Cell and spider for the scope. Thanke to Michael!

San Jose Astronomical Association Membership Form

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