



East Valley Astronomy Club

April

Newsletter

1996

EVAC MEETING HIGHLIGHTS

The March meeting was conducted by Treasurer Sheri Cahn in the planned absence of Robert Kerwin. Congratulations to Beth and Rob on their new baby! About 45 people were attending with 4 being visitors. Sheri opened the meeting at 7:35 PM.

Sam Herchak started off with many literature received through the mail including AstroCon '96 and the Apollo RZ & Telescope Fair. Anyone interested in more details on these out-of-state conventions should contact the Secretary.

Don Wrigley then gave out maps to the Black Mountain Elementary Star Party. He followed with details of the Comet Hyakutake Star Party planned for March 22nd. A report on that event follows later in this newsletter.

Pierre Schwaar then showed video obtained with his newly acquired image intensifier of the "untethered" satellite. This footage was televised a few days earlier on the Channel 3 local news. Next Pierre showed slides of Comet Hyakutake and other great comets like Bennett and West that he personally observed and photographed. He concluded with a video clip displaying experimental sky background levels during the January '96 Young Moon sighting that he believes rules out a "sunset +11 minute" report from an observer in Tucson.

Cliff DeVlieg announced a Sierra Club/Boy Scout outing over Memorial Day weekend where he could use some volunteers with telescopes. In return for participating in the star party, Cliff offers free meals, hiking tours, and nice weather at Camp Raymond near Flagstaff. If you would like to help, contact Cliff at 955-8058.

Chris Schur followed up with fresh photos taken that morning of Comet Hyakutake, showing a 6-7 degree tail already. He also estimated the coma at about 4th magnitude.

FEATURED PRESENTATION

Our fellow Club member and guest speaker was Don Wrigley, who spoke for an hour on lunar observing. He

had some great reasons for observing the Moon like; it's easy to find; out there a lot; not affected by light pollution; doesn't require much aperture, and offers so much detail to be seen. He also reminded us that with the near unlimited lighting angles, even experienced lunar observers see something new every time they look at it. Starting with the largest features, the maria, Don worked his way down through craters, rilles, faults, and lunar domes.

For observers new to the Moon, he recommended not starting with the lunar highlands because they are so busy, with crater on top of crater. Even more difficult in his opinion are the libration zones, because of the few good charts of these areas and the oblique observing angle.

Fortunately, he went on to explain the libration zones as the "edges" of the Moon exposed because of two factors. First, the Moon rotates on its axis at a constant rate, but its speed around the Earth is variable, the nature of any elliptical orbit. This allows us to see an additional 8 degrees around the east and west limbs from time to time. Secondly, since the Moon's orbit is inclined to our own (the ecliptic plane), we also get to see "over the top" or "underneath" the poles of the Moon. Over time, this results in about 59% of the Moon's surface being visible from Earth.

Don then showed several dozen slides depicting the effects of libration, clearly showing the North and South lunar poles, and other features of his talk. By 9:30, all questions were answered and members indulged on

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- CALENDAR OF EVENTS AND MORE

brownies from Sheri Cahn and sodas from Sam Herchak. The room didn't clear until after 10:30 PM.

APRIL GUEST SPEAKER

Rogier Windhorst, of ASU, will be speaking on "The Far-Side of the Cosmos with HST."

For Show and Tell portion of the meeting, especially those with pictures of the comet, please call Robert Kerwin. This is so that no one is left out. Please try and limit your program to 10 minutes.

1996 All Arizona Messier Marathon by AJ Crayon-Saguaro Astronomy Club

This years Marathon was held on March 16th at a new location south of an older observing site south of Arizona City. This is a very dark and secluded location about 20 miles past Arizona City.

During the middle of the week preceding the Marathon the weather was just great for the farmers but awful for observing - it rained a lot. A whole lot! Fortunately it ended on Friday and started to clear. By Saturday those observing juices were more than flowing, they were gushing.

We, Steve Coe and David Fredericksen and myself, left my house about 2:30 pm. I wanted an early start in order for the organizer to arrive at the site at a respectably early time. I also wanted some extra time to see old friends and make some new ones.

On the way we chatted on the CB radio to help pass the time away. Before getting there we took a poll amongst ourselves to determine how many scopes would be there when we arrived and how many would be there by sunset. Steve got the number right for our arrival at 12 and I was closest for sunset at 58.

After passing through Arizona City and getting towards the site we came upon SAC signs pointing the way. They were placed there by Adam Sunshine. Pulling into the site we saw flashing red lights marking the way from the road well into the observing field. This would be a great help for those departing before morning twilight!

In the middle of the observing field was the much expected port-a-john. This was initially requested by ladies; but was also well used by men. Mainly because the observing site was so large the port-a-john was closer than any tree or bush! It to was marked by flashing red lights. After darkness the lights proved to be too much of a distraction to observers. So they were placed inside. You could still see the flashing through the side vents near the roof.

But, before it got dark I had a chance to chat with Ray

Farnsworth. He is the owner of the land we were using for the site. He is a very pleasant person to talk with. Some of the rain damage to the road was cleaned up by him. We owe him a thanks, a big thanks!!! Not just for the site, but also for maintaining the road.

I also had a chance to see old friends and make new ones. Space doesn't permit mentioning all. But I had chance to speak with Glen Nishimoto who let me use his camera - loaded with film - and Hazel Lawler; both belong to TAAA. I can't forget new friends Tom McGowan, all the way from Massachusetts, and Tom Bopp of Hale-Bopp fame! Also well represented was EVAC with Tony Ortega, Don Wrigley and the Albers! Thanks to these and all who attended. You made the event a success!

By sunset there was much expectation about the marathon and Comet Hyakutake. A good thing the marathon wasn't a week later as this comet turned out to be a spectacular treat! By this time the number of scopes had grown to 65.

As darkness descended the marathon, general observing and astrophotography began! By 11 pm I had completed the Realm of the Galaxies and decided to take a well deserved break.

After midnight I noticed some clouds covering a large area to the north and east. Well away from that part of the sky I needed to observe.

Fortunately the clouds weren't a problem for me. As morning approached the clouds became a dreadful problem for others because the covered parts of Pegasus and Aquarius. They caused a number of observers to miss objects in these constellations.

Finally it came to the final object, M30! In the minutes before morning twilight I was able to locate the two bright stars to the west of the globular in my 8X50 finder. They were just above a mountain top to the southeast. When I thought M30 was just above the horizon I walked over to David's telescope to have a look. I didn't see it in his telescope either. I scurried back to my telescope, hoping.

A few moments later I heard Dave call for me to come confirm his observation of M30. While I head the call, it was ignored for two reasons; 1) the 200 feet distance between us was too far to get there in time to see it before disappearing and 2) I was hoping to see it in my scope.

As time passed and daylight began descending upon the observing field, 41 Capricorni appeared in the finder for a few fleeting moments. But, alas, M30 never showed up in my scope.

When it was all over, David came by to deliver his

check off list and to discuss his fleeting view of M30. While viewing it he jiggled the telescope; the fuzzy blob moved accordingly. After discussing whether his glimpse was enough to qualify for being observed or not he decided it was.

The final standings of those 30 who turned in observing forms follows.

num	name	scope	organ.
110	D. Fredericksen	12.5"f6D	SAC
109	AJ Crayon	8"f6N	SAC
	Tom McGowan	20"f5Dob	MA
	Tony Ortega	10"f5.6Dob	EVAC
	Don Wrigley	10"Dob	EVAC
108	Carl V. Anderson	8"f6N	UofA
	Adam Block	12.5"Dob	UofA
	M. A. McNeely	8"Dob	EVAC
	Ken Reeves	10"f4.5Dob	SAC
	Wade Holguin	8"SCT	?
	Jack Jones	10"f4.5N	SAC
107	Paul Dickson	8"f4.5Dob	SAC
	Bob Gardner	10"f4.5N	SAC
	M. And D. Alber	13.1"f4.5Dob	EVAC
	Rick Rotramel	16"f4.4N	SAC
106	Steve Bell	10"f5.6N	EVAC
	Flynn Haase	4.5"N	UofA
	Steve White	12.5"Dob	UofA
105 thru 103	none!?		
102	Hazel Lawler	17.5"f4.5Dob	TAAA
101	Rob Smalley	8"SCT	EVAC
97	Bob Birket	?	?
96	Rod Lowe	6"f4.5N	SAC
94	Glenn Nishimoto	8"f4.5N	TAAA
89	Mike Lercy?	4"Refractor	?
84	John Kannarr	13.1"Dob	SAC
82	Adam Sunshine	12.5"Dob	SAC
60	Regina Lawless	6"f3.6	SAC
56	Angelle Tanner	10X70Binos	UofA
55	Charles Whiting	?	SAC
22	Matthew Spinelli	8"SCT	?

YOUNG NEW MOON CONTROVERSY

Pierre Schwaar wrote the following letter regarding the recent Young Moon sightings. He is not concerned about becoming the record holder so much as he finds the claims of Jim Stamm in Tucson quite hard to believe; only 11 minutes after sunset with a C-8. All comments pro or con are appreciated.

The following letter was to Brad Schaefer at Yale and contains his objections:

Several items stand out as odd and peculiar in Jim Stamm's report, which I investigated in detail, including an on-site visit and a long telephone interview 2 days after the event.

The first and foremost problem I see is the early time of

his sighting 11 minutes after sunset. As shown quite clearly in my sky brightness graph, the sky background is 8 times brighter than at the time of our sighting. I emphasize the seriousness of this problem since I was also looking in exactly the correct location for 5 full minutes prior to finding it and definitely saw nothing in my 10". The crescent then appeared quite suddenly. After letting the others take a look, it still took me a few seconds to locate it again in the center of the field. I made sure no one tried to change the focus since this was a very delicate and tenuous image. His sighting 19 minutes earlier into the sunset made us all appear to be blind!

Indeed, if he saw the thing for as long as he did and had his wife, kid, and neighbor pick it out so easily (and even refocus it!), then 12 and 13 hour old Moon sightings ought to be common occurrences even to the point of being naked eye objects. Also worth mentioning is, of the 6 of us there, the one who did not see it was wearing rather thick glasses. I have very good eyesight and can see Stephan's Quintet in an 8" scope. His sighting would be the equivalent to seeing Stephan's Quintet in a 3", something that no one will believe.

Another problem is the color of both the Moon and background sky at moonset. While he got the color about right at the start, by the time he saw it disappear into his tree he described it as pinkish red in an orange-red sky ("It took on the color of the sky"). However, that was about the time that we first picked it up and it was white in a pale blue-green sky. Even at moonset for us about 1/3 degree up, it was a dull yellow against a pale orange background.

Then there is the length of the arc. In our phone conversation he claimed to have seen 60 degrees of arc. He later revised that to 45 degrees in a later report. Anyway, he was seeing much more arc length before any of us got to see any more than 15-30 degrees at our first sighting. I eventually glimpsed 60 degrees for an instant when the crescent was about 1/2 degree above our horizon (distant mountains approx. 20 miles away; 1/3 degree high). As for the orientation of the crescent

UPCOMING CLUB EVENTS	
•	EVAC Club Meeting, Apr 10, 7:30 pm SCC, Physical Science Bldg., Room 172
•	SENTINEL STAR PARTY, Apr 13 SAC Star Party, Sentinel, AZ., See Notice.
•	1996 Astronomy Day, Apr 20 SCC, Contact Don Wrigley (982-2428)
•	EVAC Cookout and Star Party, Apr 27 Salt River Recreation Area, See Club Notice.
•	EVAC Club Meeting, May 8, 7:30 pm SCC, Physical Science Bldg., Room 172

(cusp angle), my scope gave a tilted upside-down view which made it hard to get the exact orientation but I clearly remember seeing one cusp disappearing before the other when it set.

It seems very surprising to me that he offers no video or audio recording of such an important event, especially in view of his participation in IOTA. He knew full well that a record was at stake, and that a positive sighting would demand some verification. The January 20 event presented a uniquely favorable opportunity to break the record, an event that won't present itself for quite some time. He mentioned having seen a 15+ hour old Moon previously, and wanted very badly to observe this one and "could not stand having someone else finding it first" (his words). I believe strongly therefore that his sighting must be regarded as suspect, and since this has become a competitive "sport", verification by independent and reliable methods or parties must be required.

My final point is that if he or anyone else with enough knowledge wanted to fudge an observation as this, that can be done in a convincing manner if all that's required is that person's "say he saw it" report. My own investigation of the circumstances surrounding Jim Stamm's sighting convinces me that it did not occur as reported.

Pierre Schwaar, Phoenix, AZ.

NOTE: Pierre has been tracking Young Moons for 4

years and was observing from a remote desert site with Tom Polakis and Bernie Sanden, among others.

Comet Hyakutake Public Star Party by Sam Herchak

With such a rare event and all the enthusiasm over Comet Hyakutake, Tom Polakis thought the Club surely ought to have a public viewing event and quickly got the ball rolling. Just as rapidly, he then bailed out and left the country! He warned us in advance about his Australia observing trip though, so now it was just a matter of who would take the hot potato. As he often has, Don Wrigley stepped up and agreed to chair this event. After some discussion, it was agreed the Salt River site, used for previous public outings, offered the best viewing conditions while still being somewhat convenient.

Various officers quickly got the word out and before long, Sam Herchak and Anne Beeby alone were fielding 20 to 30 phone calls a day. Is this the observatory? Is this the science place? Is this the East Valley Astrology Club? This went on from 6:45 AM until 9:30 at night, so we concluded there was adequate interest in the event! Inquiries from newspapers, radio stations, and Channel 3 also confirmed this. Don worked hard and got telescope volunteers while Anne made up signs and Sam put together a Hyakutake handout. Now it was up to the weather.

For some reason, that whole week had high clouds every evening! Friday was no exception, but without a total overcast, there was no calling it off. Viewers

EAST VALLEY ASTRONOMY CLUB

President: Robert Kerwin 837-3971	Vice-President: Tom Polakis 967-1658	Treasurer: Sheri Cahn 246-4633	Secretary: Sam Herchak 924-5981	Properties: Steve O'Dwyer 926-2028
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MEMBERSHIP&SUBSCRIPTIONS: \$20.00 annually. Reduced rates available to members for *Sky&Telescope* and *Astronomy*. Contact Sheri Cahn, 3721 W. Hayward Ave., Phoenix, AZ 85051, (602)-246-4633.

CLUB MEETINGS: Second Wednesday of every month at the Scottsdale Community College, 7:30 PM. Normally Room PS 170 or 172 in the Physical Sciences Building.

NEWSLETTER: Published and mailed out the week before the monthly Club meeting. Send your thoughts and stories for publication to: Robert G. Kearney, Jr., 2120 W. 8th Ave., Mesa, AZ 85202, (602)-844-1732. E-mail to: JRKearney@aol.com.

CHANGE OF ADDRESS: Notify Bill Smith, 1663 S. Sycamore, Mesa, AZ 85202, (602)-831-1520. E-mail to: bsmithaz@aol.com.

EVAC LIBRARY: The library contains a good assortment of books, downloaded imagery, and helpful guides and is usually brought to the Club meetings. Contact Steve O'Dwyer for complete details, (602)-926-2028.

BOOK DISCOUNTS: Great savings for members through Kalmbach and Sky Publishing Companies. Contact Sam Herchak, 145 S. Norfolk Cir, Mesa, AZ 85206-1123, (602)-924-5981.

EVAC PARTY LINE: Let other members know in advance if you plan to attend a scheduled EVAC observing session. Contact Robert Kerwin, (602)-837-3971. E-mail to: p24493@gegpo7.geg.mot.com.

East Valley Astronomy Club

Members as of 4/3/96

Phone Name Street City, State, Zip

Manfred Alber

Enrico Alvarez

Bob Anderson

Norman Arthur

Bob Bates

Jerry Belcher

Steve Bell

Dwight Bogan

Bill Bowling

Bill Brick

David Brown

Sheri Cahn

Betty Campbell

Walter Carruthers

Russell Chmela

Marcia Collette

Kate D'Aoust

John Daly

Bill Dellinges

Cliff DeVlieg

Paul Dickson

Russell Dilbeck

John & Nellie Durham

Don Farley

Steve Gifford

East Valley Astronomy Club

Members as of 4/3/96

Phone	Name	Street	City, State, Zip
	Art Granados		
	Bill Greiner		
	Tom Harvey		
	Ted & Brenda Heckens		
	Sam Herchak & Anne Beeby		
	Frank Honer		
	Silvio Jaconelli		
	Pedro Jane		
	Mark Johnston		
	Jane & Bob Kearney Jr.		
	Kirk & Hunter Keating		
	Bob Kelley		
	Robert & Beth Kerwin		
	Mel Kirschner		
	Leon & Fannie Knott		
	Bill Krupp		
	Warren Kutok		
	Eron Lee		
	Gene Lucas		
	Gordon MacKay		
	Chuck Manberg		
	Stewart & Matthew Mann		
	Chris McFarland		
	Malcolm McKellar		
	Beth McLoughlin		

East Valley Astronomy Club

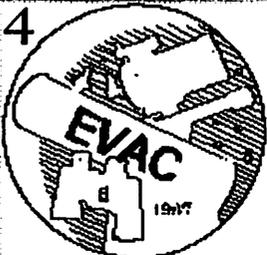
Members as of 4/3/96

Phone	Name	Street	City, State, Zip
	Aaron McNeely		
	Jerry Misner		
	Tony & Joyce Muller		
	Joe Murray		
	Fred Newman		
	Tom O'Brien		
	Steve O'Dwyer		
	Tony Ortega		
	Bill & Kajia Peters		
	Eric Peterson		
	Jim Peterson		
	Randy Peterson		
	Mike Pfeifer		
	Tom Polakis		
	Evan Pomerantz		
	Dave Porter		
	Rick Rachkofski		
	Kelton Rhoads		
	Lika Romney		
	Steve Roquemore		
	Todd Rosen		
	Bernie Sanden		
	Charlie & Paul Santori		
	Mike Sargeant		
	Nicholas Schmidt		

East Valley Astronomy Club

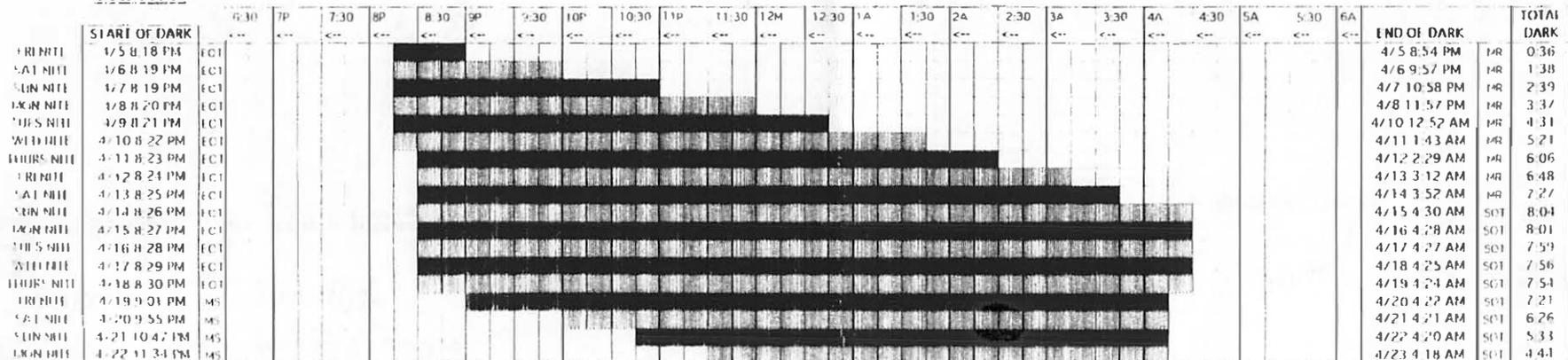
Members as of 4/3/96

Phone	Name	Street	City, State, Zip
	Chris & Dawn Schur		
	Pierre Schwaar		
	Byron Scott		
	Stanley R. Shorb		
	Dick Simmon		
	Rob Smalley		
	Bill & Becky Smith		
	Steve Smith		
	Ken Spruell		
	Emerson Stiles		
	Bob Swanson		
	Mike Thompson		
	Tom Trollen		
	Bob Uhrhammer		
	John Vames		
	Carl Visintainer		
	Jim Waters		
	Bill Weide		
	Russell Wilson		
	Don Wrigley		
	Mrs. Mazier's Sci. Class		
	Art Zarkos		
	Frank Zullo		

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
31 *Venus at max Elongation	1 *ALL MONTH NOTES	2	3 *Lunar Eclipse	4 *7:00 PM PAS Mtg	5 *7:30 PM SAC Mtg	6
7	8	9	10 7:30 PM EVAC Mtg *Excellent S. Lunar Lib. *4:35 AM Uranus Occ star	11	12	13 Sentinel Star Gaze
Sunset 6:55 PM		Sunrise 6:05AM				
14	15	16	17	18	19 *8:20 PM Occ	20 SCC Public S.P. *2:09, 2:22, and 3:47 Galilean Moons *Crescent Moon/Hyades
21 *3:00 PM Lyrid Meteors Peak	22 *9:05 PM Occ	23 *9:35 PM Algol at Min *Mercury at E. Elongation	24 *Excellent N. Lunar Lib.	25 *9:45 PM Occ	26 *10:35 PM Occ	27 EVAC Cookout *1:59, 3:00, and 4:14 Galilean Moons
Sunset 7:05 PM		Sunrise 5:50AM				
28 *10:50 PM Occ	29	30	1	2	3	4 

Date	Start	Title	Description
4/1/96	12:00 AM	ALL MONTH NOTES	<p>CALENDAR NOTES: See 1996 EVAC Occultation Predictions in the February newsletter for details on lunar occultations (Occ). Algol min refers to minimum magnitude of the naked eye variable star. Galilean Moons refer to at least three events of Jupiter's satellites. See Sky&Telescope (S&T) and Astronomy (Astro) for more details.</p> <p>PLANETS: MERCURY is at its best this year for observers in the N. Hemisphere. It's about 5 degrees above the western horizon 45 minutes after sunset. VENUS is bright (-4 mag) and unmistakable in the SW evening sky. Reaches greatest brilliancy in early May. MARS is too close to the Sun for observing until late May. JUPITER rises about 1:00 AM at mid-month and is easy to spot at -1.9 mag in the SE. SATURN rises during morning twilight low in the SE. URANUS and NEPTUNE both rise about 2 AM and can be found with a finderchart like in the Mar S&T. PLUTO rises about 9:30 PM and can be found with a moderate size scope (+13th mag) and a good finderchart.</p> <p>OBJECTS OF INTEREST: COMET HYAKUTAKE-don't miss it! Star Parties II Sentinel, SCC Public, and EVAC Cookout! Peculiar object Chiron (Feb Astro)</p>
4/3/96	6:45 PM	Lunar Eclipse	Don't worry-you didn't miss anything! Totality ended here in the West as the Moon rose. Weather permitting, we get a good one on Sep 27th.
4/4/96	7:00 PM	7:00 PM PAS Mtg	Phoenix Astronomical Society meeting, Brophy Prep, 4701 N. Central Ave. Turn off Highland into Main entrance, follow signs upstairs to Physics lab.
4/5/96	7:30 PM	7:30 PM SAC Mtg	Saguaro Astronomy Club meeting, Grand Canyon University, Fleming Bldg, Rm 105. Camelback and 33rd Ave.
4/10/96	12:00 AM	4:35 AM Uranus Occ star	Uranus occultation of SAO 163583 may be visible. My computer shows the occultation at 4:30 PM on the 9th-how about yours? See Apr S&T for details.
4/20/96	8:30 PM	Crescent Moon/Hyades	Photo opportunity as crescent Moon slides by the Hyades star cluster. Will be a nice view in binoculars too.
4/21/96	3:00 PM	3:00 PM Lyrid Meteors Peak	Peak occurs during daytime, but many will be visible several nights before and after. After midnight close to 15 Lyrids/hour are expected. Outbursts of greater numbers have been known to occur.
4/23/96	1:00 AM	Mercury at E. Elongation	Mercury at greatest eastern elongation from the Sun. Visible low in West after sunset.

APR 1996



EOT = End of Astronomical Twilight MS = Moonset MR = Moonrise SOT = Start of Twilight NOTE: Applicable to Phx Metro area Times are Mountain Standard Time Bernie Sanden 3/96

began arriving at 7:00 pm, even before it had gotten dark. It was clear to the West, so the scopes were turned to the Moon and other objects in that direction. By 8:30, the cars were pouring in, the Comet has risen, but was obscured by clouds. Fortunately, the pattern from the previous evening repeated itself and soon the clouds began to dissipate. By 9:30, Hyakutake was blazing in all it's glory and the 400 or so guests got a great show! Even at the advertised closing time of 11:00 PM, people were still glued to the scopes.

Besides the folks mentioned above, the Club would like to thank the other members who made this short-notice event a success:

Dave Brown
 Sheri Cahn
 Frank Honer
 Silvio Jaconelli
 Bob and Jane Kearney

Kirk Keating
 Robert Kerwin
 Bill Krupp
 Aaron McNeely
 Bill Smith

CLUB NOTICES

As the newsletter is going to press, the following events will be happening.

On April 20th, A public star party will be held at SCC at dusk. Contact Don Wrigley (982-2428) for more

information.

Don will be also coordinating the EVAC Cookout on April 27th from 4 to 11 pm. Food and drinks provided. Bring your immediate family. Star Party to follow. Call him for more information.

Mark your calenders on July 27 for the EVAC Tour of the Lowell Observatories. The cost of the tour will be \$15 per person. More information to follow.

With the coming of warmer weather, rattlesnakes are coming out. When you go stargazing be aware of your surrounding and be careful.

Want Ads

For Sale: SBIG ST4 Auto-guider 4 months old. Comes complete with S/W, cables, A/C power supply, DC power cable, documentation and warranty information.
 Cost New: \$890.00
 Asking: \$650.00 Plus Shipping

Jim Waters - EVAC
 Phoenix, Az.
 (602) 554-8789

The 1996 Sentinel Star Gaze

April 13, 1996

This is the fifth annual Sentinel Star Gaze, sponsored by SAC's Deep Sky Group. Sentinel is a remote site situated between Gila Bend and Yuma (about 100 miles southwest of Phoenix) making for a very dark sky. On the day of the event sunset is just after 7 PM, with twilight ending at 8:30. Those staying the entire night can expect the Moon to rise at 4 AM, twilight starting at 4:40, and sunrise at 6:04 AM. For those of you with computers, the Sentinel site is at 32° 49.7' North by 113° 12' West, at 625 feet above sea level.

Although this is officially a one night event, frequently observers get a head-start by arriving the night before, to get an extra night of observing.

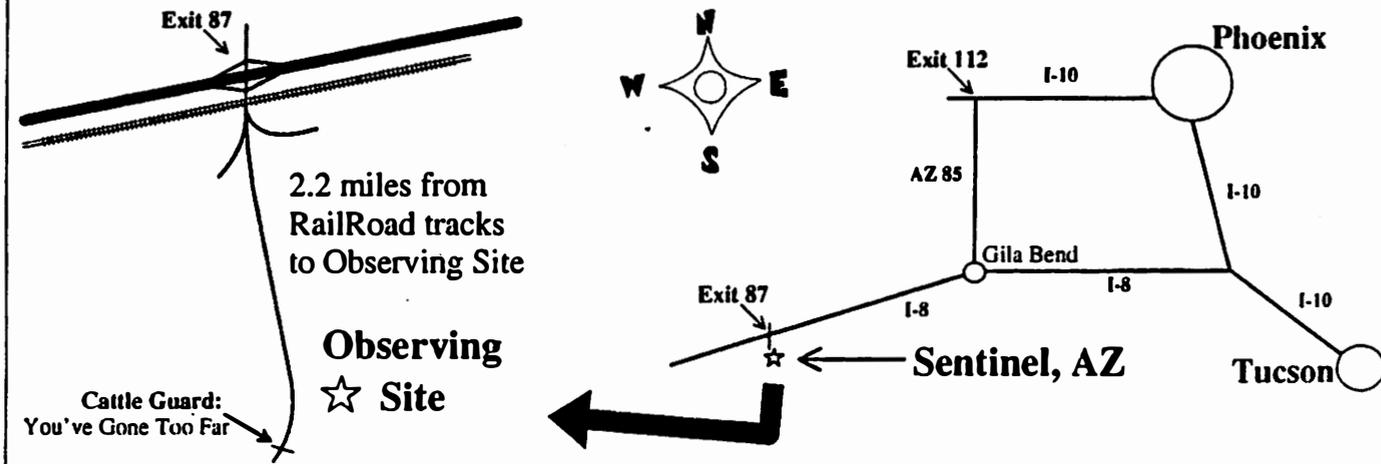
Sentinel is a good two hours drive southwest from down-town Phoenix. Please try to arrive before sunset. A Port-a-Pottie will be provided, but there are no other

facilities. Expect cold weather and hungry flying insects during twilight — let's hope we get neither.

For more information, contact Steve Coe at 789-7786 or via E-mail: 74040@compuserve.com.

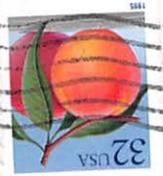
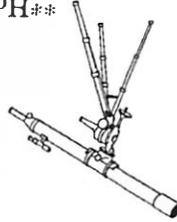
Star Party Etiquette

1. **Do Not Litter!** If you bring it with you, please take it when you leave.
2. **No White Lights after Dark!** Use only dim red lights after sundown.
3. **Park Based on Your Observing Plan. Plan Your Departure.** Park facing towards the exit to avoid using your backup lights.
4. **Bring Observers Only.** Please leave small children and pets at home.
5. **Keep Noise to a Minimum.**



Hope to see you at the meeting April 10th

EVAC member since 1/17/92



EAST VALLEY ASTRONOMY CLUB
 Robert G. Kearney, Jr., Editor
 2120 W. 8th Ave.
 Mesa, AZ 85202

1996 EVAC SCHEDULE OF EVENTS

	Meeting	Local	Deep Sky	New Moon
APR	10	20*	13*	17
MAY	8	11	18	17
JUN	12	8	15	16
JUL	10	6	13	15
AUG	14	10	17	14
SEP	11	7	14	12
OCT	9	5	12*	12
NOV	13	2&30	9	11
DEC	11	-	7	10

Other Events: APR 13 *Sentinel Star Party
 APR 20 *Astronomy Day/Public Star Party
 APR 27 EVAC Cookout/Star Party
 MAY 12-19 Texas Star Party
 MAY 24-26 Riverside Telescope Makers Conference
 JUN 8-16 Grand Canyon Star Party
 JUL/AUG EVAC Tour of Lowell Observatory
 OCT 12 *All Arizona Star Party