

The Objective View          June 2001  
Newsletter of the Northern Colorado Astronomical Society

Jan Kok, President  
kok@ezlink.com                      970 226 0318  
Kimon Berlin, Vice President  
kimon@verinet.com                  970 221 4262  
Gerry Reynolds, Treasurer  
gerry@fc.hp.com                      970 226 0705  
Tom Teters, Secretary and Web Site Editor  
tom@ezlink.com                      970 482 5702  
Web Page: <http://ncaastro.org>  
David Chamness AL correspondent              dec@ftc.agilent.com              970 482 1794  
Dan Laszlo, Newsletter Editor                  djlaszlo@aol.com                  970 498 9226  
Meetings first Thursday of each Month

**Next Meeting:**

**June 7 7:30 PM**

**Topic to be announced**

**Club business from 7-7:30 PM**

**Meeting Directions**

**Discovery Center Science Museum  
703 E Prospect Rd, Fort Collins**

In Fort Collins, from the intersection of College Ave and Prospect Rd, head East about 1/2 mile. See the Discovery Center sign to the South, enter the West Wing at its NE corner. From I-25, take Exit 268, West to Lemay Ave, continue West 1/2 mile, see Discovery Center on the left.

**Rocky Mountain National Park Summer Starwatching**

Contact Dan Laszlo if you can volunteer with a scope this summer. Dates are June 15, June 29, July 13, July 27, August 10, August 24.

**Other Events**

Little Thompson Observatory Star Night, Berthoud 7 p.m.  
June 15 <http://www.starkids.org>

Cheyenne Astronomical Society  
June 15 CAS Meeting 9 p.m.  
June 22-23 Camp Jack Star Party  
August 16-19 Weekend Under the Stars, Foxpark  
<http://users.sisna.com/mcurran>

Open House, Chamberlain Observatory, dusk to 10 PM  
<http://www.du.edu/~rstencil/Chamberlin/>  
June 30 303 871 5172

Longmont Astronomical Society 7PM  
<http://laps.fsl.noaa.gov/cgi/las.cgi>  
June 21 Longmont Christian School, 550 N Coffman St

Colorado Springs Astronomical Society  
June 21-24 CSAS Star Stare, O'Brien Gulch 60m to the W  
<http://www.rmss.org/rmss2001.htm>

**May 3 Meeting: Judy and Randy Cunningham**

The program was an open meeting, with AstroSystems' Judy Cunningham displaying meteorite jewelry, and Randy Cunningham fielding further telescope building questions. The video on light pollution, "Looking to the Stars," was shown.

**NCAS Business for May 3**

Equipment discussion continued, and on the advice of the equipment committee, the club voted to purchase 15x70 binoculars and a mounting bracket. Tom Teters reported some great viewing from the Pawnee Grasslands site on the preceding Wednesday. A head count showed 10 members planning to attend the Virginia Dale NCAS star party. Tom invited members to contribute favorite astro web links to him for the NCAS website. Dave Chamness recommended the book, "Parallax: the Race to Measure the Cosmos." The Nebraska Star Party and summer meteor showers were announced. Dan Laszlo invited members to assist with Discovery Center star watching, and Rocky Mountain National Park nights.

**Local Astronomy Internet Forum For Members Use**

"Astro-Colorado" is a new Internet forum started by NCAS member Dave Larison. The list is intended to serve popular astronomy interests in the region and is open for public viewing. The site can also be used as a supplement to the

NCAS webpage for announcements, discussions, and file uploads. Anyone can read the contents, registration is required if you wish to post. See:  
<http://groups.yahoo.com/group/astro-colo>

### Software For Sale SkyMap Pro version 4. \$25

By Chris Marriot of the UK. Includes printed manual. Current version is Seven which goes for \$95 these days. Randy Moench, 7348 Poudre Canyon Hwy, Bellvue CO 970-491-8429

### Best Looks

Moon By Mars 6/ 5, 6  
by Venus 6/18; Saturn 6/19  
Mercury In E, dawn, last few days  
Venus In predawn E sky, greatest elongation 6/8  
Mars Brightens all month from mag -1 to -2  
Jupiter & Saturn Low in E at dawn last half of month  
Uranus & Neptune Predawn in Capricornus

### Comet Linear C/2001 A2 Still in Outburst

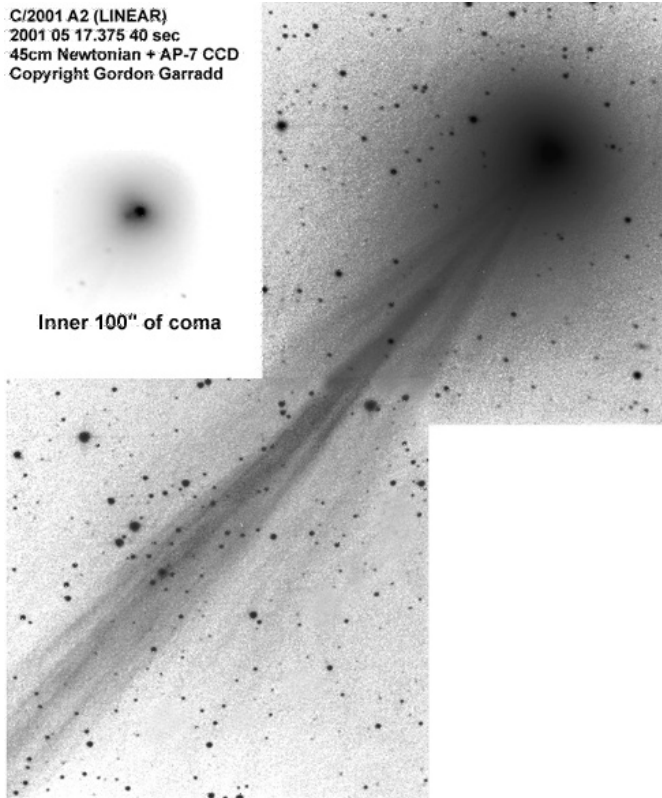
The comet continued its surprising brightening, reaching magnitude 4.5 while visible from the Southern Hemisphere. See the attached map to track it as it enters our morning sky in late June. Recent images are collected at:  
<http://encke.jpl.nasa.gov/>

### A Few Iridium Flares

Calculated for Lemay and Trilby, Ft Collins

Date	LocalTime ( Mag)	Alt.	Azimuth
04 Jun	23:16:03 -7 28:	241:	(WSW)
06 Jun	03:59:12 -7 29:	110:	(ESE)
06 Jun	20:46:25 -6 25:	341:	(NNW)
07 Jun	20:40:12 -6 26:	340:	(NNW)
08 Jun	23:01:09 -6 25:	250:	(WSW)
10 Jun	03:43:54 -7 32:	117:	(ESE)
12 Jun	22:46:20 -7 23:	257:	(WSW)
13 Jun	05:19:47 -5 73:	238:	(WSW)
15 Jun	03:22:36 -7 35:	127:	(SE )
15 Jun	22:37:35 -6 20:	264:	(W )

C/2001 A2 (LINEAR)  
2001 05 17.375 40 sec  
45cm Newtonian + AP-7 CCD  
Copyright Gordon Garrard



From:  
Dan Laszlo  
2001 S Shields St Building H  
Fort Collins CO 80525

TO:

International Space Station passes for Fort Collins-Loveland from Heavens-Above

<http://www.heavens-above.com/main.asp?Loc=Fort+Collins&Lat=40.585&Lng=-105.084&TZ=MST>

A Shuttle mission is scheduled for June 20, expect a boost during the mission. ISS orbit keeps it illuminated in much of June, so we see many more passes than usual.

Date Mag	Starts			Max. Altitude			Ends		
	Time	Alt.	Az.	Time	Alt.	Az.	Time	Alt.	Az.
03 Jun 1.5	22:10:18	10	W	22:13:05	29	NNW	22:15:51	10	NE
03 Jun 3.0	23:48:38	10	NNW	23:49:53	12	N	23:51:08	10	NNE
04 Jun 2.7	01:25:17	10	NNW	01:26:57	14	NNE	01:28:38	10	NE
04 Jun 0.3	03:00:35	10	NW	03:03:35	47	NNE	03:06:33	10	ESE
04 Jun 0.9	04:37:17	10	W	04:39:21	17	SW	04:41:25	10	S
04 Jun 0.1	21:11:10	10	WSW	21:14:14	56	NNW	21:17:19	10	NE
04 Jun 2.7	22:48:56	10	NW	22:50:47	15	NNW	22:52:38	10	NNE
05 Jun 3.0	00:26:43	10	NNW	00:27:50	11	N	00:28:58	10	NNE
05 Jun 1.7	02:02:03	10	NW	02:04:18	25	NNE	02:04:18	25	NNE
05 Jun 2.2	21:49:16	10	WNW	21:51:43	21	NNW	21:54:09	10	NNE
05 Jun 3.0	23:27:40	10	NNW	23:28:38	11	N	23:29:37	10	NNE
06 Jun 2.3	01:03:31	10	NNW	01:05:39	17	NNE	01:05:55	17	NNE
06 Jun 2.9	22:27:59	10	NW	22:29:24	12	N	22:30:49	10	NNE
07 Jun 2.7	00:04:56	10	NNW	00:06:28	13	N	00:07:59	10	NE
07 Jun 2.4	01:40:13	10	NW	01:40:29	12	NW	01:40:29	12	NW
07 Jun 2.6	21:28:06	10	WNW	21:30:08	16	NNW	21:32:10	10	NNE
07 Jun 2.9	23:06:07	10	NNW	23:07:09	11	N	23:08:12	10	NNE
08 Jun 2.1	00:41:31	10	NNW	00:43:08	20	N	00:43:08	20	N
08 Jun 2.9	22:06:42	10	NNW	22:07:46	11	N	22:08:51	10	NNE
08 Jun 2.3	23:42:49	10	NNW	23:44:48	16	NNE	23:45:51	14	NE
09 Jun 2.7	21:06:45	10	NW	21:08:21	13	NNW	21:09:57	10	NNE
09 Jun 2.6	22:44:01	10	NNW	22:45:25	12	N	22:46:47	10	NE
10 Jun 1.9	00:19:18	10	NW	00:20:46	22	NNW	00:20:46	22	NNW
10 Jun 2.7	21:44:54	10	NNW	21:45:54	11	N	21:46:55	10	NNE
10 Jun 1.8	23:20:27	10	NNW	23:22:51	20	NNE	23:23:30	19	NE
11 Jun 2.3	22:21:34	10	NNW	22:23:23	14	NNE	22:25:12	10	NE
11 Jun 1.6	23:56:53	10	NW	23:58:25	25	NW	23:58:25	25	NW
12 Jun 2.5	21:22:32	10	NNW	21:23:47	12	N	21:25:02	10	NNE
12 Jun 1.1	22:57:50	10	NW	23:00:34	28	NNE	23:01:08	26	NE
13 Jun 1.8	21:58:49	10	NNW	22:01:04	18	NNE	22:03:18	10	ENE
13 Jun 1.2	23:34:18	10	NW	23:36:00	29	WNW	23:36:00	29	WNW
14 Jun 2.2	20:59:45	10	NNW	21:01:24	13	NNE	21:03:03	10	NE
14 Jun 0.2	22:35:02	10	NW	22:38:01	43	NNE	22:38:41	36	ENE
15 Jun 1.3	21:35:50	10	NNW	21:38:26	24	NNE	21:41:03	10	E
15 Jun 0.9	23:11:35	10	WNW	23:13:31	30	W	23:13:31	30	W
16 Jun -0.7	22:12:02	10	NW	22:15:15	73	ENE	22:16:10	38	ESE
17 Jun 0.6	21:12:38	10	NW	21:15:33	35	NNE	21:18:25	10	E
17 Jun 1.1	22:48:50	10	WNW	22:50:59	23	WSW	22:50:59	23	WSW
18 Jun -0.4	21:48:53	10	WNW	21:51:55	59	SW	21:53:37	23	SSE
19 Jun 1.8	22:26:16	10	W	22:27:57	14	SW	22:28:25	13	SW
20 Jun 0.6	21:25:39	10	WNW	21:28:28	32	SW	21:31:03	11	SSE
22 Jun 1.6	21:02:25	10	W	21:04:40	18	SW	21:06:53	10	S