
INTERNATIONAL COMET QUARTERLY

Whole Number ~~116~~ 120

OCTOBER 2001

Vol. 23, No. 4

— *Table of Contents* —

- 153: "J. Mayo Greenberg (1922-2001)", by Joseph N. Marcus
155: New Comet Publications
155: "Comets for the Visual Observer in 2002", by Alan Hale
158: New Format for CCD Observations
159: Tabulation of Comet Observations
198: Designations of Recent Comets



SMITHSONIAN ASTROPHYSICAL OBSERVATORY
60 Garden Street · Cambridge, MA 02138 · U.S.A.

The International Comet Quarterly (*ICQ*) is a journal devoted to news and observation of comets, published by the Smithsonian Astrophysical Observatory in Cambridge, Massachusetts. Regular issues are published 4 times per year (January, April, July, and October), with an annual *Comet Handbook* of ephemerides published normally in the first half of the year as a special fifth issue. An index to each volume normally is published in every other October issue (even-numbered years); the *ICQ* is also indexed in *Astronomy and Astrophysics Abstracts* and in *Science Abstracts Section A*.

The regular (invoiced) subscription rate is US\$31.00 per year for surface-mail delivery (price includes the annual *Comet Handbook*; the price without the *Handbook* is US\$23.00 per year). Subscribers who do not wish to be billed may subscribe at the special rate of US\$23.00 per year for surface-mail delivery (rate is \$15.00 without *Handbook*). Add \$15.00/year to each of these rates for airmail delivery outside of the United States or for first-class delivery within the U.S. [The last set of digits (after the hyphen) on the top line of the mailing address label gives the Whole Number that signifies the last *ICQ* issue which will be sent under the current subscription status. An asterisk after these numbers indicates credit for the next annual *Comet Handbook*. The first five digits represent the subscriber's account number.] Make checks or money orders payable in U.S. funds (and drawn on a U.S. bank) to *International Comet Quarterly* and send to Mail Stop 18; Smithsonian Astrophysical Observatory; 60 Garden St.; Cambridge, MA 02138, U.S.A.

Credit cards may be used for payment of subscriptions, though a minimum of US\$20.00 can be accepted for each charge. Credit-card orders may be placed by e-mail (to iausubs@cfa.harvard.edu), by fax (to USA 617-495-7231), or by telephone (to USA 617-495-7280, generally between 14:00 and 21:00 UT, Monday to Friday). When sending orders by fax or e-mail, please include the following information: (1) your name (as given on the credit card); (2) card type (MasterCard, Visa, or Discover); (3) credit-card number and expiration date; (4) address at which the card is registered; (5) which services you wish to subscribe to; (6) if the payment is for the renewal of a current or expired account, please include your account number.

Group subscription rates available upon request. Back issues are \$6.00 each — except for "current" *Comet Handbooks*, which are available for \$15.00 (\$8.00 to subscribers if ordered with their *ICQ* subscription; see above). Up-to-date information concerning comet discoveries, orbital elements, and ephemerides can be obtained by subscribing to the *IAU Circulars* and/or the *Minor Planet Circulars* (via postal mail and also available via computer access); for further information, contact the above e-mail address (or the *ICQ* at the above postal address).

Cometary observations should be sent to the Editor in Cambridge; all data intended for publication in the *ICQ* that is not sent via computer electronic mail should be sent on standard *ICQ* observation report forms, which can be obtained upon request from the Editor. Those who can send observational data (or manuscripts) in machine-readable form are encouraged to do so [especially through e-mail via the computer networks SPAN (6700::DAN) or Internet (ICQ@CFA.HARVARD.EDU), or via floppy disks that can be read on an IBM PC], and should contact the Editor for further information. The *ICQ* has extensive information for comet observers on the World Wide Web, including the Keys to Abbreviations used in data tabulation (see URL <http://cfa-www.harvard.edu/icq/icq.html>). In early 1997, the *ICQ* published a 225-page *Guide to Observing Comets*; this edition is now out of print, but a revised edition is under preparation.

Most of the Observation Coordinators (OCs) listed below have e-mail contacts with the *ICQ* Editor; observers in the general area of such OCs who lack access to e-mail networks may send data to the OC for relay to the *ICQ* in electronic form.

ICQ EDITORIAL STAFF::

Daniel W. E. Green.....Editor
Syuichi Nakano.....*Comet Handbook* Editor

Charles S. Morris.....Associate Editor
Carl W. Hergenrother.....Associate Editor

OBSERVATION COORDINATORS::

AUSTRALIA David A. J. Seargent
AUSTRALIA Andrew Pearce (32 Monash Ave.; Nedlands, W.A. 6009)
BELARUS Sergey E. Shurpakov (Flat 22; 1 Korban Street; 211011 Baran)
BRAZIL José Guilherme de S. Aguiar (R. Candido Portinari, 241; 13089-070 - Campinas - S.P.)
BULGARIA Veselka Radeva (Astronomical Observatory and Planetarium; P.O.B. 120; 9000 Varna)
CHINA Chen Dong Hua (101 Quan Zhou Road; Gulangyu, Xiamen 361002)
CZECH REPUBLIC Petr Pravec (Astronomical Institute; CS-25165 Ondřejov); Vladimír Znojil
FRANCE Stéphane Garro (Horizon 1800; Batiment A; 05170 Orcieres-Merlette)
GERMANY Andreas Kammerer (Johann-Gregor-Breuer-Str. 28; 76275 Ettlingen)
HUNGARY Krisztián Sárneczky (Vécsey u. 10; H-1193 Budapest)
ITALY G. Antonio Milani (Dip. Scienze Biomediche; via Trieste 75; 35121 Padova)
JAPAN Akimasa Nakamura (P.O. Box 9, Kuma Post Office; Kuma-cho, Ehime 791-1201)
THE NETHERLANDS Alex Scholten (Kraaiheide 48; NL-6961 PD Eerbeek)
NEW ZEALAND Alan C. Gilmore and Pamela Kilmartin (P.O. Box 57; Lake Tekapo 8770)
NORWAY Bjoern H. Granslo (Postboks 1029; Blindern; N-0315 Oslo 3)
POLAND Janusz Plezka and Tomasz Sciezor (Faculty of Physics and Nuclear Technique; University of Mining and Metallurgy; Al. Mickiewicza 30; 30-059 Cracow)
PORTUGAL Alfredo Pereira (R. Antero de Quental 8, 2 dto; Carnaxide; 2795 Linda-a-Velha)
SLOVENIA Herman Mikuž (Kersnikova 11; 1000 Ljubljana)
SOUTHERN AFRICA Tim Cooper (P.O. Box 14740; Bredell 1623; Kempton Park; South Africa)
SPAIN Jose Carvajal Martinez (San Graciano 7; 28026 Madrid)
UKRAINE Alexandr R. Baransky (Komarova 12; Vladimír — Volynsky; Volynska 264940)
UNITED KINGDOM Jonathan Shanklin (11 City Road; Cambridge CB1 1DP; England)
Guy M. Hurst (16 Westminster Close; Kempshott Rise; Basingstoke, Hants RG22 4PP; England)
former U.S.S.R. Klim I. Churyumov (Astronomical Observatory; Kiev University; Observatorna 3; Kiev 254053; Ukraine)

EDITORIAL ADVISORY BOARD::

Michael F. A'Hearn, *University of Maryland*
Brian G. Marsden, *Harvard-Smithsonian Center for Astrophysics*
David D. Meisel, *State University College of New York, Geneseo*

Michel Festou, *Observatoire Midi-Pyrenees, Toulouse*
Zdenek Sekanina, *Jet Propulsion Laboratory*
Thomas L. Rokeske, *Appalachian State University*

+++++

This issue is No. 120 of the publication originally called *The Comet* (founded March 1973) and is Vol. 23, No. 4, of the *ICQ*. [ISSN 0736-6922]
© Copyright 2001, Smithsonian Astrophysical Observatory.

The *ICQ* supports the International Dark-Sky Association and other non-profit educational groups that promote turning off outdoor lights whenever possible, fully shielding all used outdoor lights, and lowering the lumen-output levels from all existing outdoor lights.

CORRIGENDA

• In the July 2001 issue (*ICQ* 119), all of the even-numbered pages from page 108 to page 150 should, of course, carry the date "July 2001" in the upper right corner (rather than "April 2001" as printed).

• In the July 2001 issue (*ICQ* 119), page 150, line one of text, *for* on this page and the next, *read* on this page,

J. MAYO GREENBERG (1922-2001)

Comet science lost a giant when J. Mayo Greenberg succumbed to pancreatic cancer on 2001 November 29 at his home in Leiden, Holland. He was 79. Fair to say the world's expert on dust in the universe, Greenberg was a leading experimental and theoretical astrophysicist and a pioneer in the fields of astrochemistry and astrobiology. Because he so successfully tied the basic physics and chemistry of interstellar dust to comets, his influence in cometary astronomy is immense.

The day after his death, some details of Mayo's academic career were posted by George Miley at the website¹ of Leiden Observatory where Mayo had worked since 1975. These are summarized in this and the next paragraph. Born in Baltimore on 1922 January 14, Mayo exhibited extraordinary mathematical talents. He entered the Johns Hopkins University to study physics at the age of 15, and just over two years later he advanced to its graduate school. With World War II came a pause in his university career — he was recruited to analyze the air-flow problems that caused the experimental P-38 dive bomber to crash repeatedly — but he returned to Johns Hopkins to obtain his Ph.D. in theoretical physics in 1948 on the theory of atomic scattering of radiation. Appointed in 1952 as Assistant Professor at Rensselaer Polytechnic Institute in Troy, New York, he rapidly rose to the rank of Full Professor before moving on in 1970 to chair the physics department at the State University of New York in Albany.

During the 1950s and 1960s, Greenberg applied his knowledge of light scattering by small particles to the problem of absorption and polarization of starlight by interstellar dust. Developing an increasing interest in astronomy, he spent a sabbatical year in 1961 at University of Leiden to study with the great Dutch astronomers Henk van de Hulst ("my dear friend and mentor") and Jan Oort, who first postulated the vast cloud of comets about the sun that now bears his name. Greenberg returned to Leiden in 1968 as a Visiting Professor, and on a permanent basis in 1975 as Chair of the newly created Department of Laboratory Astrophysics.

Van de Hulst had theorized in the 1940s that, in the ultracold 5° to 10°K environment of interstellar space, some of the atoms known to exist there — hydrogen, oxygen, carbon, and nitrogen — would adhere to the cold surfaces of tiny silicate dust grains to form mantles of frozen water, methane, and ammonia. Greenberg set out to model this process in his new laboratory in Leiden. He built an ultracold 10°-K vacuum chamber — into which he introduced gases such as water, carbon monoxide, ammonia, and methane, which are found in interstellar space. While the gases accumulated as simple ices on a clear quartz window inside (dubbed the "cold finger" — the model's equivalent of the silicate-grain cores), he radiated them with ultraviolet light to mimic the ambient radiation fields found in cold molecular clouds and then analyzed the residue by infrared spectroscopy (Greenberg 1981, 1982). He found that new, more complex molecules had formed — including formaldehyde, which is abundant in interstellar space and in comets. On warming this frost, the free radicals in the mixture combined at about 27°K in violent chemiluminescent explosions, resulting in even more complex organic compounds and biochemicals such as glycerol, glyceramide, and the amino acids glycine, serine, and alanine. On further warming to room temperature, the frost became goeey and yellow. His colleagues toyed with names like "Greenberg glue" and "Mayo-nnaise" for this residue, but the term that stuck in the literature was simply "yellow stuff." In 1992 the European *EURECA* satellite carried some of the Leiden "yellow stuff" into orbit via the U.S. *Space Shuttle*, which retrieved the sample a year later after it had been exposed to the sun's ultraviolet rays to simulate the harsher environment that the grains would experience after being ejected into diffuse clouds following star formation. "What went up yellow came back brown," wrote Greenberg (2000). The "brown stuff" gave better matches to absorption spectra of actual interstellar dust sources, and on mass-spectroscopic analysis it was rich in polycyclic aromatic hydrocarbons (PAHs; cf. Greenberg *et al.* 2000), which are now thought to be ubiquitous in the interstellar medium.

These experiments bolstered Greenberg's earlier conclusions — based on interstellar extinction and polarization curves and on his laboratory studies of microwave scattering by cm-sized grain analogs — that interstellar grains were predominantly (80% by mass) elongated, larger particles averaging 0.2 mm × 0.4 mm with silicate cores and processed mantles of refractory and variably volatile organics. The remainder were two types of tiny carbonaceous grains of average sizes 0.005 and 0.002 mm, the latter consisting of PAHs in the current scenario. Most astronomers now believe that comets condense at very low temperatures from this dust during cloud collapse and star and planet formation. According to Greenberg, a comet should retain this dust in a rather pristine state, with the small carbonaceous particles and ices accreting onto the larger particle mantles during comet formation. In 1986, the *Giotto* and *Vega 1* and *Vega 2* probes to 1P/Halley provided dramatic support for Greenberg's interstellar-grain model of comet dust. The instruments detected a wide variety of particle masses, including the 10⁻¹⁴ gram expected for individual core-mantle dust grains, and the 10⁻¹⁸ gram typical of smaller carbonaceous particles in the mantles. Time-of-flight ion spectrometers gave further evidence (Jessberger and Kissel 1991), based on the fact that the oxygen, carbon, and nitrogen ions from the organic mantles hit the spacecraft detectors just before the silicon, magnesium, and iron ions from the cores did (Greenberg 2000). No less than Fred Whipple, the originator of the "dirty snowball" model of comet nuclei, pronounced that "the general nature of the particles is consistent with Greenberg's (1982) theory that they are indeed made by interstellar dust and that '~ 20% of comets consists of complex non-volatile organic molecules of prebiotic type'" (Whipple 1987).

Greenberg (1986) also predicted that the nucleus of Halley's comet would be extremely dark at a time when many cometary astronomers were still thinking of comets as snowy and bright. He reasoned that the tiny grains would strongly forward-scatter sunlight inward, where it would be then be absorbed by repeated scatterings within the body. The images from the *Giotto* spacecraft proved Greenberg right.

¹<http://www.strw.LeidenUniv.nl/mayo/mayo.html>

Greenberg's comet-nucleus dust model predicts a "bird's nest" structure of very porous, fluffy, fragile material of very low thermal conductivity and tensile strength — most of it empty space. The model well accommodates the non-gravitational forces observed in comets as well as the high propensity for comets to split. It also explains the unusually hot thermal spectrum and high silicate emission observed in comet C/1995 O1 (Hale-Bopp) as due to grains that are more porous than those of other comets (Li and Greenberg 1998). This is quite in contrast to the currently prevailing explanation (*e.g.*, Mason *et al.* 2001) that C/1995 O1 had an excess of especially small grains. In a conversation with him a month before he died, I can attest that Mayo was adamant on this issue — he thought that the smaller-grain idea had no coherent astrophysical basis on first principles. In the coming years or decades, this debate may be resolved as spacecraft head for scientifically sophisticated encounters with comets.

Throughout his career, Greenberg was intensely interested in the relation of organic interstellar grains and their comet progeny to the origin of life on earth. He led in switching the paradigm of the biochemical evolution toward life from the surface of the earth to the depths of interstellar space. He had little patience for the particular speculation of the cosmologist Sir Fred Hoyle (1915-2001) that putative comet viruses from space spread epidemic disease on earth (see references in Marcus and Olsen 1991), but he was open to the general possibility of panspermia. Greenberg and his colleague Peter Weber put one aspect of the idea to a tough experimental test by embedding the hardy spores of *Bacillus subtilis* in a protective layer of "yellow stuff" on the cold finger and radiating them with the ultraviolet equivalent of 4.5-45 million years exposure in a molecular cloud. They found that, at the protective 10°K temperature of deep space, the spores survived! They concluded that star-to-star transport of viable bacteria is in principle possible (Weber and Greenberg 1985).

Greenberg's most sensational achievement in astrobiology was inspired by William Bonner, a chemist at Stanford University. In all earth life, the central biomolecules — proteins, polysaccharides, and nucleic acids (RNA and DNA) — are found in only left-handed or only right-handed mirror (or "enantiomer") forms. But on the early earth, the corresponding monomer biochemicals — amino acids, sugars, and nucleic acid bases, respectively — would be racemized, that is, the left- and right-handed enantiomers would be in exactly equal proportions. As such, they would be unable to polymerize to the more complex biomolecules — a chemical effect known as "enantiomeric inhibition" — which poses a central problem to paradigms for the origin of life. Bonner and his Stanford colleague, Edward Rubenstein, proposed a space-based solution (Bonner 1991) at the conference "Comets and the Origins and Evolution of Life" (Marcus 1991). Organic-laden interstellar dust clouds pass by neutron stars, which produce strong, circularly polarized, synchrotron ultraviolet radiation that would selectively destroy either the right- or the left-handed forms of prebiotic molecules in the grain mantles — depending on which pole of the star that the cloud passed by — leaving the other-handed forms intact. Greenberg was intrigued (Marcus 1991). At that conference, he had proposed that the extreme fluffiness of comets dictated by his interstellar-grain model would allow a significant fraction of cometary material to land chemically intact on the early-earth's surface, where Bonner's chiral precursors to life could chemically evolve (Marcus 1991). Greenberg went back to Leiden to test Bonner's hypothesis on the "cold finger." He radiated the racemized amino-acid tryptophan with circularly polarized ultraviolet radiation and, voila, produced an excess of the right-handed enantiomer that would be equivalent to a 50% excess in interstellar-cloud conditions (Greenberg 1996). Based on the numbers, lifetimes, and encounter frequencies of neutron stars and interstellar clouds, he argued that homochiralization of organic compounds in pre-comet grains by neutron stars would be widespread throughout the galaxy (Greenberg 1996). Support for this prediction came only a short time later with the discovery of non-racemic extraterrestrial amino acids in the primitive Murchison meteorite (Engel and Macko 1997).

Those who encountered Mayo were struck by his child-like sense of wonder and enthusiasm for his work, at which he spent long hours. His prolific output — over 300 articles in Astrophysical Data Service² — is exceeded by few astronomers. And over 100 of these came in the last decade of his life! He was that rare scientist whose deep grounding and restive creativity combusted to push envelopes and change paradigms. His ideas have had enduring influence on his peers in cometary astronomy, and from his well-funded Astrophysical Laboratory in Leiden, he has spun off many brilliant proteges who themselves are now scientific leaders in their own rights. Mayo was also an enthusiastic and effective populizer of science, somewhat of a Carl-Sagan figure in Europe, where he appeared on numerous television and radio programs and in the printed press, giving interviews until the final weeks of his life.

Mayo is survived by Naomi, his wife of 54 years (and a cellist and counseling psychologist), and their two sons, two daughters, and grandchildren. Daughter Shelly is an accomplished violinist in the Rotterdam Philharmonic, and son Jon Greenberg is familiar to many in the United States for his stint as a reporter for National Public Radio. After the diagnosis of his mortal illness last spring, his friends — concerned that he would not reach his 80th birthday in January 2002 — decided to celebrate it early. On September 17, 60 colleagues from Leiden and around the world gathered at the Observatory to honor Mayo. The title of the mini-symposium, in which Mayo was an active participant, aptly summarized his career: "From Interstellar Dust to Comets: A Journey Through Space and Time".

— Joseph N. Marcus (19 Arbor Road; St. Louis, MO 63132; U.S.A.; e-mail jnm4248@bjc.org)

REFERENCES

- Bonner, W. A. (1991). "The origin and amplification of biomolecular chirality", *Origins of Life and Evolution of the Biosphere* 11, 59-111.
- Engel, M. H.; and S. A. Macko (1997). "Isotopic evidence for extraterrestrial non-racemic amino acids in the Murchison meteorite", *Nature* 343, 129-133.

²<http://adswww.harvard.edu/>

- Greenberg, J. M. (1981). "Chemical evolution of interstellar dust — A source of prebiotic material?" In *Comets and the Origin of Life*, ed. by C. Ponnamperna (Dordrecht, Holland: D. Reidel Publishing Co.), 111-128.
- Greenberg, J. M. (1982). "What are comets made of? A model based on interstellar dust", in *Comets*, ed. by L. Wilkening (Tucson: University of Arizona Press), 131-163.
- Greenberg, J. M. (1986). "Predicting that comet Halley is dark", *Nature* **321**, 385.
- Greenberg, J. M. (1996). "Chirality in interstellar dust and in comets: Life from dead stars", in *Physical Origin of Homochirality in Life*, AIP Proc. 379, ed. by D. B. Cline (Santa Monica: AIP), 185-210.
- Greenberg, J. M. (2000). "The secrets of stardust", *Scientific American* **283**(6), 46-51.
- Greenberg, J. M.; J. S. Gillette; C. Munoz; M. Guillermo; T. B. Mahajan; R. N. Zare; A. Li; W. A. Schutte; M. de Groot; and C. Mendoza-Gomez (2000). "Ultraviolet photoprocessing of interstellar dust mantles as a source of polycyclic aromatic hydrocarbons and other conjugated molecules", *Astrophys. J.* **521**, L71-L73.
- Jessberger, E. K.; and J. Kissel (1991). "Chemical properties of cometary dust and a note on carbon isotopes", in Newburn *et al.* (1991), 1075-1092.
- Li, A.; and J. M. Greenberg (1998). "From interstellar dust to comets: Infrared emission from comet Hale-Bopp (C/1995 O1)", *Astrophys. J.* **498**, L83-L87.
- Marcus, J. N. (1991). "Did a rain of comets nurture life?", *Science* **254**, 1110-1111.
- Marcus, J. N.; and M. A. Olsen (1991). "Biological significance of organic compounds in comets", in Newburn *et al.* (1991), 439-462.
- Mason, C. G.; R. D. Gehrz; T. J. Jones; C. E. Woodward; M. S. Hanner; and D. M. Williams (2001). "Observations of unusually small dust grains in the coma of comet Hale-Bopp C/1995 O1", *Astrophys. J.* **549**, 635-646.
- Newburn, R. L., Jr.; M. Neugebauer; and J. Rahe (1991), eds. *Comets in the Post-Halley Era* (Dordrecht, Holland: Kluwer Academic Publishers).
- Weber, P.; and J. M. Greenberg (1985). "Can spores survive in interstellar space?", *Nature* **316**, 403-407.
- Whipple, F. L. (1987). "The cometary nucleus: Current concepts", *Astron. Astrophys.* **187**, 852-858.

Φ Φ Φ

New Comet Publications

2001 COMET HANDBOOK

The *2002 Comet Handbook* (a special annual edition of the *ICQ*, published as a December 2001 issue) was mailed to all *ICQ* subscribers and complimentary recipients in the first week of January 2002. The largest edition yet of the *Comet Handbook* at 142 pages, it contains orbital elements, magnitude parameters, and ephemerides for 143 comets predicted to be brighter than mag ≈ 22 in the year 2002. The price remains unchanged at US\$15.00 per copy (with one copy only available to *ICQ* subscribers at the special rate of \$8.00).

2001 CATALOGUE OF COMETARY ORBITS

The 14th edition of Brian Marsden's *Catalogue of Cometary Orbits (CCO)* was also issued in December, containing orbits for 924 cometary apparitions spanning comet 1P/Halley in 240 BC to comet C/2001 W2 (BATTERS). The *CCO* can be obtained from the *ICQ* (address and payment information on page 152 of this issue) for \$40.00 (\$60.00 airmail).

Φ Φ Φ

COMETS FOR THE VISUAL OBSERVER IN 2002

Alan Hale

Southwest Institute for Space Research

The year 2002 begins with the appearance of a relatively bright long-period comet that may become faintly visible to the unaided eye. C/2000 WM₁, discovered by the LINEAR program in November 2000 and at perihelion on 2002 January 22 ($q = 0.555$ AU), has been under visual observation since August 2001, and — although developing nicely — it has (as of this writing) consistently remained approximately one magnitude fainter than the earliest (perhaps somewhat optimistic) projections. If this trend is maintained, the comet should be at $m_1 \sim 5.5-6$ in December 2001 (being closest to the earth, at $\Delta = 0.32$ AU, early that month), and perhaps one magnitude brighter during January (when it will be located at $\delta \sim -50^\circ$ and visible only from the southern hemisphere).

[text continued from page 155]

Following conjunction with the sun in late January, the comet emerges into the morning sky in early February, perhaps at $m_1 \sim 6$, and should remain visually detectable for the next several months, fading below $m_1 \sim 13$ by perhaps June or July.

Other Long-Period Comets

Several other long-period comets of moderate to large perihelion distance (the majority of which have been discovered by the LINEAR program) should be visually observable during 2002. One of these, C/2000 SV₇₄, was at opposition in October 2001 and has been detectable at $m_1 \sim 13.5$ for the past several months. It is at perihelion on 2002 April 30 ($q = 3.541$ AU), at which time it will be in northern circumpolar skies, reaching $\delta = +84^\circ$ in mid-June. It will remain in far northern skies and should also remain near $m_1 \sim 13.5$ until the latter months of 2002.

Among other LINEAR-discovered comets, C/2001 N₂, at perihelion on 2002 August 19 ($q = 2.669$ AU) and at opposition two months earlier, may reach $m_1 \sim 13$ during the middle months of 2002. C/2001 K₅, at perihelion on 2002 October 11 at a distant q of 5.183 AU, is at opposition in early June 2002 and may also reach $m_1 \sim 13$ during the year's middle months. The more recent discovery C/2001 RX₁₄, which is at perihelion on 2003 January 18 ($q = 2.058$ AU), may reach $m_1 \sim 10-11$ in late 2002 and be perhaps a magnitude brighter when near perihelion and at opposition early the following year.

Another comet, C/2001 HT₅₀, independently discovered by both the LINEAR and NEAT programs, does not pass perihelion until 2003 July 8, at $q = 2.804$ AU. It is at opposition in early March 2002, at which time it will probably still be too faint for visual observations; however, when it emerges into the morning sky during the latter months of the year enroute to another opposition in mid-January 2003, it may be as bright as $m_1 \sim 12-13$.

Two additional large- q long-period comets that will remain in southern circumpolar skies throughout 2002 may possibly become visually detectable for observers in the southern hemisphere. Comet C/1999 F₁ (Catalina), at perihelion on 2002 February 13 ($q = 5.787$ AU), will be at opposition in late January ($\delta = -75^\circ$) and again in late November ($\delta = -67^\circ$). The LINEAR discovery C/2001 C₁, at perihelion on 2002 March 28 ($q = 5.105$ AU), is at opposition in late April ($\delta = -65^\circ$). Neither object is likely to become brighter than $m_1 \sim 14$.

Finally, the very distant comet C/2001 Q₄, discovered by the NEAT program on 2001 August 24 when it was located at $r = 10.1$ AU, reaches perihelion on 2004 May 16 at $q = 0.962$ AU (according to the most recent orbit available at this writing), at which time it theoretically could become a moderately conspicuous naked-eye object. It is at opposition in late October 2002, when it is located at $r = 6.7$ AU and at $\delta \sim -40^\circ$. Any brightness predictions made at the time of this writing [early Nov. 2001] must be regarded as extremely uncertain; however, it is possible that the comet may be visually detectable at perhaps $m_1 \sim 14$ during the latter months of 2002.

Short-Period Comets

19P/Borrelly

This comet has already passed perihelion on 2001 September 14 ($q = 1.358$ AU) and was successfully encountered by the *Deep Space 1* spacecraft a week later. It has remained in the morning sky throughout this apparition, and reached a peak brightness near $m_1 \sim 10$ in September and October. Comet 19P is nearest Earth in late December 2001 ($\Delta = 1.28$ AU) and is at opposition in mid-March 2002. The comet should still be visually observable at $m_1 \sim 12$ in January 2002 but should fade beyond visual detectability within one to two months after that.

31P/Schwassmann-Wachmann

After its previous (and very favorable) return in 1994, this comet passed 0.25 AU from Jupiter in March 1997, which increased its perihelion distance from 2.07 to 3.41 AU and its orbital period from 6.4 to 8.7 years. Although the dramatically increased perihelion distance will most likely keep the comet beyond the range of visual observations for the foreseeable future, the geometric circumstances in 2002 (with perihelion occurring on January 18, and opposition only two weeks later) happen to be extremely favorable. There is thus some possibility that the comet may become visually detectable around that time as an extremely faint object, perhaps at $m_1 \sim 14$.

7P/Pons-Winnecke

This rather "classic" short-period comet, which made several close approaches to the earth during the early 20th century (including one to within 0.04 AU in 1927), has had a very spotty visual observational record during the recent past. A small handful of visual observations were reported at both the 1983 and 1989 returns (with the 1996 return being extremely unfavorable). The 2002 return, with perihelion taking place on May 15 ($q = 1.258$ AU) is the best in over three decades, with opposition occurring in mid-September and closest approach to the earth ($\Delta = 0.63$ AU) taking place in early June.

It should thus be possible to scrutinize its brightness behavior rather thoroughly at this return. Using the reported 1983 and 1989 magnitudes as a rough guide, the peak brightness may be near $m_1 \sim 11$ during May-July, although this should be regarded as rather uncertain (and it is possible that the heliocentric light curve may be asymmetric with respect to perihelion). Beginning in early August, the comet remains south of $\delta = -40^\circ$, so southern-hemisphere observers will be favored during this part of the apparition.

57P/du Toit-Neujmin-Delporte

Although normally quite faint, at this comet's previous (and unfavorable) return in 1996, it underwent an apparent outburst several months after perihelion, reaching $m_1 \sim 12$. The 2002 return, meanwhile, is extremely favorable, with perihelion taking place on July 31 ($q = 1.730$ AU) and opposition and closest approach to the earth ($\Delta = 0.72$ AU) occurring almost simultaneously with this. Any brightness forecasts must be regarded as highly uncertain, but if some semblance of the 1996 activity is still being maintained, the comet may become as bright as $m_1 \sim 10-11$.

67P/Churyumov-Gerasimenko

This comet's 2002 return (perihelion August 18, $q = 1.292$ AU) is only moderately favorable; at the time of perihelion the comet will be located in the morning sky at an elongation of just under 50° . At that time, it should be near a peak brightness of $m_1 \sim 11-12$, a brightness that it may maintain for the next two to three months before it commences fading.

46P/Wirtanen

Like the above comet, this object's 2002 return is also only moderately favorable; perihelion takes place on August 26 ($q = 1.059$ AU), at which time it will be located in the morning sky at an elongation of just under 40° (and only 10° to the east-southeast of the above comet). Based upon the comet's brightness at its 1991 return (which took place under somewhat similar geometric conditions), a peak brightness near $m_1 \sim 11$ may be expected during August and September.

92P/Sanguin

In 2002 this comet makes its third observed return, under geometric circumstances quite similar to those at its discovery apparition in 1977; perihelion, at $q = 1.807$ AU, occurs on September 23, approximately six weeks after the comet is at opposition. No visual observations seem to have been attempted in 1977, but based upon the brightest photographic magnitudes that were reported then, a peak brightness near $m_1 \sim 13$ may be expected around the time of perihelion.

22P/Kopff

The 2002 return of this comet is quite unfavorable, and when at perihelion on December 12 ($q = 1.584$ AU), its elongation will be $< 15^\circ$. Because of this comet's rather high intrinsic brightness, it is possible that it may be detectable visually around August-September, when it will be located in the evening sky at an elongation of $40^\circ-50^\circ$ and possibly at $m_1 \sim 12-13$.

P/1986 A1 (Shoemaker)

This object is making its first predicted return following its discovery in January 1986; perihelion is predicted to occur on 2002 December 15, at $q = 1.834$ AU. Opposition occurs in early February 2003. The geometric conditions are quite similar to those at the discovery return, and based upon visual observations that were obtained then, a peak brightness of $m_1 \sim 13$ may be expected in December 2002 and January 2003.

30P/Reinmuth

Although this comet was discovered as long ago as 1928 and it has been recovered at every subsequent return except one, its visual observational record is very spotty. The 2002 return (perihelion December 24, $q = 1.878$ AU) is quite favorable, with opposition taking place in early March 2003. Although brightness predictions are necessarily uncertain, a peak brightness of $m_1 \sim 13$ may be obtained in January and February 2003; it may be a half-magnitude fainter than this during late 2002.

29P/Schwassmann-Wachmann

During its 2001 viewing season, this comet underwent an extended period of activity from May through August, with several outbursts being detected. In 2002 the comet emerges into the morning sky about March, is at opposition in early August, and remains accessible in the evening sky until December. As always, monitoring of the comet for additional outburst activity is encouraged.

Other objects

During early 2002 two recently-discovered objects, apparently minor planets but traveling on distinctly cometary orbits, should be bright enough for visual observations. Cometary activity has been unsuccessfully searched for in both of these objects; however, it is possible that — as they continue to approach perihelion — either or both of them may begin to exhibit such activity. If that does occur, then they could conceivably become brighter than the brightnesses indicated here, which are based upon the standard asteroidal brightness formula.

Discovered by the LONEOS program on 2001 July 28, 2001 OG₁₀₈ is traveling in an orbit distinctly representative of a Halley-type comet ($e = 0.925$, $i = 80^\circ$, $P = 48.5$ years); it is at perihelion on 2002 March 15, at $q = 0.994$ AU

[text continued from page 157]

(and thus can be considered an Apollo-type minor planet). It is in conjunction with (although well north of) the sun in mid-February 2002, and in early April it reaches a declination of $+87^\circ$. After that it travels rapidly southward, passing 0.55 AU from the earth on April 18. At that time, it should be at $m_v \sim 14$ but will fade rapidly as it recedes from the sun and the earth.

2001 TX₁₆ was discovered by LINEAR on 2001 October 13 and was subsequently identified in NEAT images obtained in August. The orbit is representative of a typical Jupiter-family comet ($e = 0.599$, $P = 6.8$ years), and it has made two moderately close approaches to Jupiter during recent decades (Marsden 2001). Perihelion occurs on 2002 January 17, at $q = 1.440$ AU, and it is at opposition a month later. A peak brightness of $m_v \sim 14$ should be reached between late December 2001 and late February 2002.

REFERENCES

Marsden, B. G. (2001). *MPEC* 2001-U45.

Φ Φ Φ

New Format for CCD Observations

As mentioned in the April 2001 issue (page 41), we now inaugurate a new format for tabulated CCD photometry of comets. This new format has been long overdue, as there are additional data needed for CCD photometry that were not needed in the 20-year-old *ICQ* tabulation format for visual data. The old format, based on 80 columns (because the *ICQ* started archiving data in the era of 80-character punched cards), will be retained for visual observations, to lessen confusion. The new format will involve only the addition of additional information beyond column 80, and this new format is explained here. Beginning in the January 2002 *ICQ*, we will begin tabulating CCD data in a different manner to incorporate these new bits of information that observers will be expected now to contribute. Note that, in another long-overdue change, we have begun separate tabulations of visual and CCD data on comets in this issue; photographic data will be tabulated with CCD data. Non-visual measurements have long been known to be quite different from visual measurements, and readers have commented that they have found it increasingly awkward to have visual and non-visual photometry tabulated together. Contributors may continue to send visual and non-visual data together, as our computer programs will separate the two types of data before publication.

Below is a table showing the new *ICQ* format for tabulated data, intended to include more CCD information, starting in column 81. First is given two lines to indicate the line number, followed by a line with helpful headings, followed by two example lines that might show actual data contributed by the observer, followed again by two lines indicating the column number. Note that certain codes representing camera name, type of CCD chip, etc., will be defined in future issues of the *ICQ* as data arrive from observers and are published; for now, contributors of CCD data should spell out such information in descriptive information for coding by the *ICQ* staff via the new codes (the first list of which will be given in the January 2002 issue). While the details may seem extensive at first, it will soon be realized that many or most of the fields in columns 81-129 will remain identical for many individual observers from observation to observation. The data indicated below should help analysts of cometary photometry to learn more about the brightness of comets than was possible with the earlier, more-limited data.

```

          90          100          110          120          130
123456789 123456789 123456789 123456789 123456789

f InT APERTURcamchip SFW C ## u.uu xx.x PIXELSIZE

I      S 0.57mST5 T25 G70 1 U4          7.2 11.5s 5.5
15a120C 1.0 mST5aT25 FPr 3 P5 0.55 12.5 1.0m 1.0

123456789 123456789 123456789 123456789 123456789
          90          100          110          120          130

```

Explanation of columns:

Columns 81-82, f: if comparison stars are in the same frame as the comet, write "I" in column 81; if comparison stars are in the next field (one instrumental field size outside that of the comet), write "N" in column 81; otherwise, put a two-digit number in columns 81-82 (flush right) indicating the estimated distance of comparison-star field from the comet in whole degrees (with 99 indicating 99° or greater; 00 indicates $< 1^\circ$).

Columns 83-86, InT: integration time of comparison-star field when the field is outside that of (or different from) the comet exposure (given in seconds, flush right); use identical column format to that used for CCD exposure of comet field in columns 44-47.

Columns 87-93, APERTUR: columns 88-92 hold numerical dimension of photometric aperture size, with decimal in column 90; column 93 has letter to denote units (d = degrees, m = arcmin, s = arcsec); column 87 gives the shape of the photometric aperture (S = square, C = circular). *NOTE that this means that only actual, measured coma diameters will appear in columns 50-54 — and that the plus-sign (+), which indicated an aperture size for electronic photometry, will no longer be used in column 49.*

Columns 94-100, camchip: three-character code to specify CCD camera in columns 94-96; then three-character code to specify camera's CCD chip in columns 98-100 (e.g., T25 = TC255); column 97 contains "a" to denote an anti-blooming CCD.

Columns 102-104, SFW: 3-character code to denote the software package used to derive the magnitudes (e.g., G70 = Guide 7.0; FPr = FitsPro, etc.). This is different from the source of comparison-star magnitudes.

Column 106, C: 1 = correction for bias; 2 = flat-field corrected; 3 = both.

Columns 108-109, ##: number of CCD frames taken of comet on same night, for verification of proper identification (flush right); if accurate astrometry was performed and submitted formally to the ICQ/MPC/CBAT for publication, place either a "P" for "published" or a "U" in column 108 for either "unpublished" or "publication status unknown" (and, if more than 9 images were obtained on a single night of this comet and astrometry was also reported, simply put a "9" in column 109 in addition to the letter in column 108).

Columns 111-114, u.uu: estimated error/uncertainty in magnitude (decimal point in column 112).

Columns 116-119, xx.x: magnitude of the comparison star closest in brightness to that of the comet.

Columns 121-129, PIXELSIZE: assumed rectangular shape, with one pixel side given numerically in columns 121-124 (decimal point in column 123) and the other (perpendicular) side given numerically in columns 126-129 (decimal point in column 128); column 125 contains the letter that denotes the units (d = degrees, m = arcmin, s = arcsec).

Φ Φ Φ

Tabulation of Comet Observations

Beginning with this issue, the tabulated CCD and visual data are segregated into separate groups. Note also that the usual ordering of comets in the descriptive and tabulated sections (long-period comets, numbered short-period comets, unnumbered short-period comets) has been changed also: listed first are the numbered short-period comets, followed by all the unnumbered comets [long- and short-period comets merged together, by year/letter(s)/number(s) designations].

Descriptive Information, to complement the Tabulated Data (all times UT):

See the July 2001 issue (page 98) for explanations of the abbreviations used in the descriptive information. The descriptive information below complements both the CCD/photographic tabulated data and the visual tabulated data (with non-visual and visual information combined into the same text).

◊ *Comet 2P/Encke* ⇒ 2000 July 31.10-Aug. 11.13: Guide 6.0 software used for comparison-star magnitudes [REN].

◊ *Comet 19P/Borrelly* ⇒ 2001 July 31.78, Aug. 21.79, 28.78, Sept. 17.78, Oct. 13.76, 14.77, and 29.84: Guide 7.0 software used for photometry [YOS02]. Aug. 14.79: "rather difficult due to nearby moon and drifting mist; not as confident of the accuracy of the estimate as I desired" [SEA]. Aug. 15.78, 17.77, 22.74, Sept. 17.79, 22.79, Oct. 18.68, and 24.72: Guide 6.0 software used for photometry [NAG08]. Aug. 18.13: w/ 25.6-cm L (169×), central cond. of mag 13.7; 1' jet/fan in p.a. 90° [BIV]. Aug. 23.77, 24.79, Sept. 18.79, and Oct. 19.76: Guide 6.0 software used for photometry [TSU02]. Aug. 28.79, Sept. 16.79, and 22.80: Guide 6.0 used for photometry [HAS08]. Aug. 29.10: slight enhancement w/ a Lumicon Swan Band Filter [MEY]. Sept. 1.14: w/ 25.6-cm L (169×), central cond. of mag 13.3; 1' jet in p.a. 85° [BIV]. Sept. 15.11: w/ 25.6-cm L (169×), central cond. of mag 13.3; 1' jets in p.a. 85° and 130° [BIV]. Sept. 21.16: astrometry reported to MPC (co-observer S. Sanchez) [ROD03]. Sept. 22.74, 24.76, and Oct. 13.79: Guide 7.0 software used for photometry [MIY01]. Sept. 23.16: w/ 20.3-cm L (95×), central cond. of mag 13.5 [BIV]. Sept. 30.16: w/ 25.6-cm L (169×), central cond. of mag 13.8; 1' jets in p.a. 95° and 65° [BIV]. Oct. 14.16: CCD at focus of 200-mm-focal-length f/3.5 telephoto lens, mounted on a Nexstar 5 for altazimutal tracking; this same set-up was used for obs. of P/2001 Q2, C/2000 WM₁, and C/2000 SV₇₄ on same night [MOR09]. Oct. 16.20: w/ 20.3-cm L (95×), central cond. of mag 13.8 [BIV]. Oct. 25.81 and 26.81: Guide 7.0 software used for photometry [WAT01]. Oct. 28.17: w/ 25.6-cm L (169×), central cond. of mag 13.7; main jet in p.a. 110°, curving to 95° [BIV].

◊ *Comet 24P/Schaumasse* ⇒ 2001 Aug. 13.45: Guide 6.0 software used for photometry [TSU02].

◊ *Comet 29P/Schwassmann-Wachmann* ⇒ 2001 July 24.58, Aug. 13.51, and 18.54: Guide 6.0 software used for photometry [TSU02]. Aug. 13.51: in outburst [TSU02]. Aug. 23.60: Milky Way interference [MAT08].

◊ *Comet 41P/Tuttle-Giacobini-Kresák* ⇒ 2000 Dec. 8.23: enhanced w/ Swan-band filter; Guide 6.0 software used for comparison-star magnitudes [REN].

◊ *Comet 44P/Reinmuth* ⇒ 2001 Aug. 24.82, Sept. 18.77, and Oct. 14.84: Guide 6.0 software used for photometry [TSU02].

◇ *Comet 51P/Harrington* ⇒ 2001 Sept. 23.74: Guide 6.0 was used for photometry [TSU02]. Sept. 24.74: in outburst w/ a very strong central cond. and a faint tail (astrometry reported to MPC) [KAD02].

◇ *Comet 74P/Smirnova-Chernykh* ⇒ 2001 Mar. 27.91: comet verified w/ "Deep Sky Survey"; Guide 6.0 software used for comparison-star magnitudes [REN]. June 10.78-14.78: obs. from the Great Karroo, South Africa, under superb skies; limiting stellar magnitude generally 1.5 mag fainter than comet; comet usually followed for 10-20 min to ensure proper identification, appearance being diffuse and extended and very different from images of nearby stars; obs. charts prepared from Guide 6.0 software, usually with 1° field and showing stars to mag 15 or limit of Guide — comet plotted using latest orbital elements from ICQ/CBAT/MPC website or from latest *MPECs* [BOU].

◇ *Comet 110P/Hartley* ⇒ 2000 Nov. 24.11: comet identified by its motion; Guide 6.0 software used for comparison-star magnitudes [REN]. Nov. 30.05: comet less enhanced w/ Swan-band filter; Guide 6.0 software used for comparison-star magnitudes [REN].

◇ *Comet C/1997 BA₆ (Spacewatch)* ⇒ 2001 Aug. 13.65, Sept. 12.57, and Oct. 11.51: Guide 6.0 software used for photometry [TSU02].

◇ *Comet C/1998 T1 (LINEAR)* ⇒ 1999 July 4.00: comet brighter w/ Swan-band filter [DEA]. July 4.97: comet slightly brighter w/ Swan-band filter [DEA].

◇ *Comet C/1999 F1 (Catalina)* ⇒ 2001 June 11.73 and 12.72: small, well-condensed object; very faint, but unambiguously identified using Digital Sky Survey image as a ref.; obs. from the Great Karroo, South Africa, under superb skies; limiting stellar magnitude generally 1.5 mag fainter than comet; comet usually followed for 10-20 min to ensure proper identification, appearance being diffuse and extended and very different from images of nearby stars; obs. charts prepared from Guide 6.0 software, usually with 1° field and showing stars to mag 15 or limit of Guide — comet plotted using latest orbital elements from ICQ/CBAT/MPC website or from latest *MPECs* [BOU].

◇ *Comet C/1999 J2 (Skiff)* ⇒ 2001 June 10.79-14.80: obs. from the Great Karroo, South Africa, under superb skies; limiting stellar magnitude generally 1.5 mag fainter than comet; comet usually followed for 10-20 min to ensure proper identification, appearance being diffuse and extended and very different from images of nearby stars; obs. charts prepared from Guide 6.0 software, usually with 1° field and showing stars to mag 15 or limit of Guide — comet plotted using latest orbital elements from ICQ/CBAT/MPC website or from latest *MPECs* [BOU]. Aug. 22.47: Guide 7.0 software used for photometry [NAK01].

◇ *Comet C/1999 K8 (LINEAR)* ⇒ 2000 Nov. 30.78: ephemeris from "Minor Planet Electronic Service" (<http://cfa-www.harvard.edu/iau/MPEph/MPEph.html>), checked with Real Sky software [HAS02]. 2001 Oct. 14.74: Guide 7.0 software used for photometry [NAK01].

◇ *Comet C/1999 L3 (LINEAR)* ⇒ 2000 Jan. 21.20: obs. during total lunar eclipse [MOR03]. Jan. 25.92: comet less enhanced w/ Swan-band filter; Guide 6.0 software used for comparison-star magnitudes [REN].

◇ *Comet C/1999 N2 (Lynn)* ⇒ 1999 July 13.95: comet discovery confirmed w/ this obs. [DEA]. July 14.93 and 17.93: comet slightly brighter w/ Swan-band filter [DEA].

◇ *Comet C/1999 S2 (McNaught-Watson)* ⇒ 2001 Oct. 14.73: Guide 7.0 software used for photometry [NAK01].

◇ *Comet C/1999 S4 (LINEAR)* ⇒ 1999 Nov. 4.05-2000 July 30.89: Guide 6.0 software used for HS and TT comparison-star magnitudes [REN].

◇ *Comet C/1999 T1 (McNaught-Hartley)* ⇒ 2000 Dec. 22.25-2001 Apr. 26.01: Guide 6.0 software used for comparison-star magnitudes [REN]. Dec. 22.29: comet appears same brightness with Swan-band filter [DEA]. 2001 Jan. 6.42: slight brightening w/ Swan-band filter [SHA04]. Feb. 15.09 and 16.10: only a central part of coma was measured, w/in a square aperture of size 1'60 × 1'60; the fully visible coma was 6'0 in dia. [HOR02]. Feb. 19.23: poor sky; round coma [LOO01]. July 11.99: moonlight [RES]. July 14.93: m_1 was measured in a square aperture of size 1'60 × 1'60 [HOR02]. Aug. 11.90: limiting stellar mag 15.0; ephemeris from MPES (see entry for C/1999 K8 on 2000 Nov. 30.78, above) [HAS02]. Aug. 13.49, Sept. 4.44, and Oct. 11.43: Guide 6.0 software used for photometry [TSU02]. Aug. 22.88-23.04: motion detected in this time interval (orbital elements from MPEC site, imported to Guide 7) [RES]. Aug. 23.89: motion checked between Aug. 23.89 and 23.94 (ephemeris as in note for Aug. 22.88, above) [RES].

◇ *Comet C/1999 T2 (LINEAR)* ⇒ 2000 July 5.99: comet less enhanced w/ Swan-band filter; Guide 6.0 software used for comparison-star magnitudes [REN]. July 30.99: obs. in mountains at elevation 1000 m; Guide 6.0 software used for comparison-star magnitudes [REN].

◇ *Comet C/1999 U4 (Catalina-Skiff)* ⇒ 2001 Aug. 29.09: small, somewhat-condensed object; reality checked versus Digital Sky Survey [BOU].

◇ *Comet C/1999 Y1 (LINEAR)* ⇒ 2000 Aug. 28.98: comet less enhanced w/ Swan-band filter; Guide 6.0 software used for comparison-star magnitudes [REN]. 2001 Aug. 18.68: Guide 6.0 software used for photometry [TSU02]. Aug. 27.71: Guide 7.0 software used for photometry [NAK01].

◇ *Comet C/2000 CT₅₄ (LINEAR)* ⇒ 2001 June 10.80, 11.83, 12.84, 13.88, and 14.83: comparison stars on all dates selected from nearby field of NGC 121, with Johnson V magnitudes as given in Skiff's LONEOS ftp file; obs. from the Great Karroo, South Africa, under superb skies; limiting stellar magnitude generally 1.5 mag fainter than comet; comet

usually followed for 10-20 min to ensure proper identification, appearance being diffuse and extended and very different from images of nearby stars; obs. charts prepared from Guide 6.0 software, usually with 1° field and showing stars to mag 15 or limit of Guide — comet plotted using latest orbital elements from ICQ/CBAT/MPC website or from latest MPECs [BOU]. June 10.80: comet close to star of mag 15 [BOU].

◊ *Comet C/2000 OF₈ (Spacewatch)* ⇒ 2001 June 10.72-14.77: obs. from the Great Karroo, South Africa, under superb skies; limiting stellar magnitude generally 1.5 mag fainter than comet; comet usually followed for 10-20 min to ensure proper identification, appearance being diffuse and extended and very different from images of nearby stars; obs. charts prepared from Guide 6.0 software, usually with 1° field and showing stars to mag 15 or limit of Guide — comet plotted using latest orbital elements from ICQ/CBAT/MPC website or from latest MPECs; this comet was off-track by ~ 1', later confirmed by new orbital elements [BOU].

◊ *Comet C/2000 SV₇₄ (LINEAR)* ⇒ 2001 July 22.03: diffuse object at correct position; due to twilight, motion not obs. [RES]. July 28.99: jets 0'6 long in p.a. 320° and 0'4 long jet in p.a. 40° [HOR02]. July 31.03: jet 0'5 long in p.a. 35° [HOR02]. Aug. 11.86: limiting stellar mag 15.0; ephemeris from MPES (see entry for C/1999 K8 on 2000 Nov. 30.78, above) [HAS02]. Aug. 15.92: elongated coma in p.a. 50° [HOR02]. Aug. 16.93: elongated coma in p.a. 47° [HOR02]. Oct. 8.79, 15.84, and 16.94: comparison stars used from Henden sequence of V723 Cas, as adopted by the AAVSO [BOU]. Oct. 11.54: Guide 6.0 software used for photometry [TSU02]. Oct. 18.63 and 24.66: Guide 6.0 software used for photometry [NAG08].

◊ *Comet C/2000 W1 (Utsunomiya-Jones)* ⇒ 2000 Dec. 5.95: comet appears brighter and more condensed with Swan-band filter [DEA]. Dec. 6.95 and 7.94: comet slightly brighter w/ Swan-band filter [DEA].

◊ *Comet C/2000 WM₁ (LINEAR)* ⇒ 2001 Aug. 18.13: although faint, comet was seen under good skies (naked-eye limiting mag 6.3); the comet's motion was checked over 2 hr "and no group of stars could have been confusing" (via comparison with the Digital Sky Survey); independent measures at 169× at this time yielded $m_1 = 14.1$ (MM = S, ref = HS), coma dia. 0'6, DC = 3 [BIV]. Aug. 24.74, Sept. 17.65, Oct. 13.61, and 19.63: Guide 6.0 software used for photometry [TSU02]. Aug. 29.11: "comet appeared harder to see than C/2000 SV₇₄, so the HS mags may be too bright" [SHA02]. Sept. 14.90: comet close to star of mag 11 [BOU]. Sept. 17.68, Oct. 13.67, 14.67, 18.73, and 29.82: Guide 7.0 software used for photometry [YOS02]. Sept. 22.78, Oct. 11.58, 18.65, and 24.64: Guide 6.0 software used for photometry [NAG08]. Sept. 23.66: co-added CCD frame (total integration time 420 sec) taken w/ 35.0-cm C shows a 0'5 coma and a 3'0 tail in p.a. 270° [TSU02]. Sept. 25.02: astrometry reported to MPC (co-observer S. Sanchez) [ROD03]. Oct. 12.94: comet close to bright star, interfering w/ estimate [RES]. Oct. 13.64: Guide 7.0 software used for photometry [MIY01]. Oct. 13.91: coma elongated E-W [HAS02]. Oct. 16.18: w/ 20.3-cm L (95×), central cond. of mag 13.9 [BIV]. Oct. 16.91: comet well visible and becoming more condensed; tail length and p.a. determined at 143× [BOU]. Oct. 22.08: comet only barely visible due to bright sky background; major auroral display this night [GRA04]. Oct. 23.04: coma appeared diffuse and ill-defined [GRA04]. Oct. 23.75, 25.79, and 26.80: Guide 7.0 software used for photometry [WAT01]. Oct. 28.15: w/ 25.6-cm L (169×), central cond. of mag 13.3 [BIV].

◊ *Comet C/2001 A2 (LINEAR)* ⇒ 2001 Apr. 1.39-July 22.45: comparison-star magnitudes taken from Bill Gray's Guide software [JON]. Apr. 15.04 and 22.04: slight brightening w/ Swan-band filter [SHA04]. Apr. 27.04: definite brightening w/ Swan-band filter [SHA04]. May 3.96 and 5.96: ref. stars SAOC 170506 (mag 5.54) and SAOC 170715 (5.88) [MAN04]. May 11.97, 13.96, 16.94, 17.93, 18.93, 19.92, and 21.92: ref. stars SAOC 170506 (mag 5.54), SAOC 170613 (mag 5.28), SAOC 170715 (mag 5.88) [MAN04]. June 28.04: low alt., bright background, twilight [RES]. July 1.01: clear gaps in the heavy clouds, and not the best seeing; twilight, low alt. [RES]. July 3.98: moonlight; w/ 0.41-m L, diffuse nuclear cond., very faint tail ~ 0'7 long [RES]. July 4.99: full moon [RES]. July 5.98: moonlight; near very red variable TX Psc [RES]. July 6.98: moonlight [RES]. July 12.89, 14.91, 15.89, 18.01, 19.96: w/ 6.3-cm f/13 R (52×), $m_2 = 10.0$ [KOS]. July 12.91: easy naked-eye object in excellent conditions; w/ 41-cm f/5 L, comet condensed (DC = 6, dia. = 18') w/ tail ~ 1° long in p.a. 145° [RES]. July 13.99: w/ 15×70 B, coma dia. 40', DC = 0 [MER05]. July 15.97: w/ 15×70 B, coma dia. 35', DC = 0 [MER05]. July 28.68, 30.68, Aug. 2.77, 8.47, 12.61, 13.58, 15.72, 17.75, and 22.70: Guide 6.0 software used for photometry [NAG08]. July 28.68: w/ 32-cm L (58×), tail ~ 30' long in p.a. 200° [NAG08]. July 31.80, Aug. 14.49, 22.55, 28.74, and Sept. 11.54: Guide 7.0 software used for photometry [YOS02].

Aug. 3.02: moonlight, haze [BAR06]. Aug. 5.84: moonlight [HOR02]. Aug. 6.89 and 7.90: comparison stars HIP 101741 (mag 8.5) and HIP 101657 (mag 9.0) [MAR02]. Aug. 6.97: visibility clearly inferior to open cluster NGC 7789 [GRA04]. Aug. 7.95: diffuse and ill-defined coma; comet only barely seen w/ 7.0-cm R (24×); gibbous Moon and astronomical twilight [GRA04]. Aug. 8.52: moonlight [MAT08]. Aug. 9.92: w/ 25.6-cm L (169×), central cond. of mag 13.9 [BIV]. Aug. 10.50: comet appeared somewhat enhanced using Swan Band Filter [SEA]. Aug. 10.91: w/ 25.6-cm L (169×), central cond. of mag 14.4 [BIV]. Aug. 11.94: w/ 25.6-cm L (169×), central cond. of mag 14.5 [BIV]. Aug. 12.29: faint tail [LIN04]. Aug. 13.58, Sept. 12.51, and Oct. 11.48: Guide 6.0 software used for photometry [TSU02]. Aug. 13.90: very diffuse coma, slightly condensed towards center; at 333×, small knot of material (dia. 15'') w/ an overall brightness of mag 13 at center [KAM01]. Aug. 17.99: comet very faint in 7.0-cm R, but easier in 20.3-cm T, in a moderately dark sky [GRA04]. Aug. 18.14: "central cond. of dia. < 3'' and mag 14.4; the coma was strongly asymmetrical in p.a. 165° and may indicate the beginning of a broad, diffuse dust tail whose observed length of 3' was totally defined by the system-limited field-of-view; no substructure was noted to be associated with the tail's point of origin" [ROQ]. Aug. 18.95: "comet was an object of low surface brightness, clearly inferior to that of M33 and NGC 205, also slightly weaker than the E part of the Veil Nebula (NGC 6992)" [GRA04]. Aug. 23.97: comet close to bright star TT 1625.1596 (mag 8.35) [LEH]. Aug. 25.14: "central cond. of dia. 2'' and mag 14.8; coma pronouncedly asymmetrical

in p.a. 162° , possibly indicating the initial beginning of a very diffuse, short tail; comet's apparent motion measured as $\approx 38''/\text{hr}$ in p.a. 233° [ROQ]. Aug. 29.05: rather large, diffuse object, involved with several stars, hence difficult to estimate accurately [BOU]. Sept. 14.85: comet just a very faint, diffuse glow [BOU]. Sept. 19.90: interference from faint stars in field [RES]. Oct. 5.81: at Observatorio Montcabrer, Cabrils, Spain (MPC code 213, for which astrometry is usually submitted in conjunction with CCD photometry); measurer is listed as Montse Campas for astrometry; Meade 25.4-cm LX200 T + Starlight MX-916 CCD camera [NAV01]. Oct. 15.85: astrometry sent to MPC; LX200 30.5-cm $f/6.3$ reflector + CCD w/ ST9E window; R magnitudes from USNO-SA2.0 and -SA1.0 catalogues [MAN05].

◇ Comet C/2001 K3 (Skiff) \Rightarrow 2001 June 13.89: obs. from the Great Karroo, South Africa, under superb skies; limiting stellar magnitude generally 1.5 mag fainter than comet; comet usually followed for 10-20 min to ensure proper identification, appearance being diffuse and extended and very different from images of nearby stars; obs. charts prepared from Guide 6.0 software, usually with 1° field and showing stars to mag 15 or limit of Guide — comet plotted using latest orbital elements from ICQ/CBAT/MPC website or from latest MPECs [BOU]. July 12.94: motion detected after 45 min (orbital elements from ICQ/MPC website); at $262\times$, limiting stellar mag ~ 16.3 in comet field [RES]. July 24.65 and Aug. 13.56: Guide 6.0 software used for photometry [TSU02].

◇ Comet C/2001 K5 (LINEAR) \Rightarrow 2001 June 9.73-13.73: obs. from the Great Karroo, South Africa, under superb skies; limiting stellar magnitude generally 1.5 mag fainter than comet; comet usually followed for 10-20 min to ensure proper identification, appearance being diffuse and extended and very different from images of nearby stars; obs. charts prepared from Guide 6.0 software, usually with 1° field and showing stars to mag 15 or limit of Guide — comet plotted using latest orbital elements from ICQ/CBAT/MPC website or from latest MPECs [BOU]. Aug. 22.46 and Sept. 16.43: Guide 7.0 software used for photometry [NAK01].

◇ Comet C/2001 MD₇ (LINEAR) \Rightarrow 2001 Aug. 18.56: Guide 6.0 software used for photometry [TSU02].

◇ Comet P/2001 O2 (NEAT) \Rightarrow 2001 Aug. 27.68: Guide 7.0 software used for photometry [NAK01].

◇ Comet P/2001 Q2 (Petriew) \Rightarrow 2001 Aug. 20.09: easy object; some interference from GSC star of mag 11.7 at edge of coma [BOU]. Aug. 21.07: variable conditions w/ fog forming and disappearing; moreover, comet close to GSC star of mag 10.7 [BOU]. Aug. 21.77, 28.80, Oct. 13.78, and 14.80: Guide 7.0 software used for photometry [YOS02]. Aug. 22.72, Sept. 17.80, and 22.80: Guide 6.0 software used for photometry [NAG08]. Aug. 22.79, 28.78, Sept. 16.80, and 22.82: Guide 6.0 used for photometry [HAS08]. Aug. 23.08: brighter inner coma seems elongated, while fainter outer coma seems more spherical; photograph taken on Aug. 23.11 w/ T-Max 400 film yields the tabulated data for that time [HOE]. Aug. 23.74, 24.77, Sept. 18.82, and Oct. 19.81: Guide 6.0 software used for photometry [TSU02]. Aug. 26.10 and 30.10: m_1 was measured in a square aperture $1'60 \times 1'60$ [HOR02]. Aug. 29.10: somewhat brighter and more condensed w/ a Lumicon Swan Band Filter [MEY]. Aug. 31.08: obs. disturbed by light from Jupiter (in same field-of-view) [LEH]. Sept. 1.11: some interference from Jupiter, only $20'$ away [BOU]. Sept. 1.16: w/ 25.6-cm L ($169\times$), central cond. of mag 13.6 [BIV]. Sept. 5.79: bright moonlight; comet was a little enhanced using Swan Band filter [SEA]. Sept. 15.13: w/ 25.6-cm L ($169\times$), central cond. of mag 14.1 [BIV]. Sept. 22.76, 24.78, and Oct. 13.80: Guide 7.0 software used for photometry [MIY01]. Sept. 26.76: rather low surface brightness, but enhanced using Swan Band filter [SEA]. Sept. 29.16: comet close to star of mag 10 [BOU].

◇ Comet C/2001 Q4 (NEAT) \Rightarrow 2001 Sept. 18.74: "has an obvious coma at $r = 10$ AU!" [NAK01]. Sept. 21.08: astrometry reported to MPC (co-observer S. Sanchez) [ROD03]. Sept. 23.69: Guide 6.0 was used for photometry [TSU02].

◇ Comet P/2001 Q5 (LINEAR-NEAT) \Rightarrow 2001 Oct. 13.52: Guide 6.0 software used for photometry [TSU02].

◇ Comet P/2001 Q6 (NEAT) \Rightarrow 2001 Oct. 13.55: Guide 6.0 software used for photometry [TSU02]. Oct. 13.64 and 14.74: Guide 7.0 software used for photometry [YOS02]. Oct. 18.64 and 24.65: Guide 6.0 software used for photometry [NAG08].

◇ Comet C/2001 S1 (Skiff) \Rightarrow 2001 Oct. 12.66: Guide 7.0 software used for photometry [NAK01]. Oct. 24.61: Guide 6.0 software used for photometry [NAK01].

◇ ◇ ◇

Key to observers with observations published in this issue, with 2-digit numbers between Observer Code and Observer's Name indicating source [11 = Dutch Comet Section (via A. Scholten); 13 = Agrupacion Astronomica de Madrid (via J. Carvajal); 16 = Japanese observers (via Akimasa Nakamura, Kuma, Japan); 23 = Czech group (via V. Znojil); 32 = Hungarian group (via K. Sarneczky); 36 = Italian observers (via Antonio Milani); 37 = Ukrainian Comet Section (via A. R. Baransky); 42 = Belarus observers (via V. S. Nevski and S. E. Shurpakov); etc.]. Those with asterisks (*) preceding the 5-character code are new additions to the Observer Key:

| | | | |
|----------|----------------------------------|-----------|---------------------------------|
| ADA02 18 | Jacek Adamik, Poland | *BAN01 18 | Robert Bankowski, Sanok, Poland |
| BAL03 42 | Igor I. Baluk, Gomel, Belarus | BAR | Sandro Baroni, Italy |
| BAL05 18 | Andrzej Balcerek, Wronki, Poland | BAR06 37 | Alexandr R. Baransky, Ukraine |

| | | | | | |
|--------|----|----------------------------------|--------|----|----------------------------------|
| BEG01 | 15 | Mike Begbie, Harare, Zimbabwe | MEY | 28 | Maik Meyer, Germany |
| BIV | | Nicolas Biver, France | MIY01 | 16 | Osamu Miyazaki, Ibaraki, Japan |
| BOHO2 | 18 | Jerzy Bohusz, Gdynia, Poland | MOR03 | | Warren C. Morrison, Canada |
| BOU | | Reinder J. Bouma, Netherlands | MOR09 | | Philippe Morel, France |
| BRL | 12 | Pál Brlás, Budapest, Hungary | NAG08 | 16 | Yoshimi Nagai, Koufu, Japan |
| BURO4 | 18 | Wojciech Burzynski, Poland | NAK01 | 16 | Akimasa Nakamura, Kuma, Japan |
| CHE03 | 33 | Kazimieras T. Cernis, Lithuania | *NAV01 | | Ramon Naves, Barcelona, Spain |
| CH001 | 18 | Franciszek Chodorowski, Poland | NEV | | Vitali S. Nevski, Belarus |
| CHR | 18 | Antoni Chrapek, Pikulice, Poland | NOW | | Gary T. Nowak, VT, U.S.A. |
| COM | 11 | Georg Comello, The Netherlands | OOT | 16 | Isao Ootsuki, Miyagi, Japan |
| COO02 | | Tim P. Cooper, South Africa | ORI | 16 | Takaaki Oribe, Tottori, Japan |
| CRE02 | 36 | Claudio Cremaschini, Italy | OSS | 18 | Piotr Ossowski, Poland |
| CSU01 | 32 | István Csuti, Maglód, Hungary | PAC03 | 18 | Pawel Paczkowski, Serock, Poland |
| DEA | | Vicente F. de Assis Neto, Brazil | PAR03 | 18 | Mieczyslaw L. Paradowski, Poland |
| DES01 | | Jose G. de Souza Aguiar, Brazil | *PIL | 18 | Aleksandra Pilecka, Poland |
| DIE02 | | Alfons Diepvens, Belgium | POW01 | 18 | Jacek Powichrowski, Poland |
| DIJ | | Edwin van Dijk, The Netherlands | PRI04 | 15 | David Pringlewood, Zimbabwe |
| DUS | 18 | Grzegorz Duszanowicz, Sweden | REN | | Alexandre Renou, France |
| END | 16 | Tsunenobu Endo, Matsumoto, Japan | RES | 18 | Maciej Reszelski, Poland |
| FIL04 | 18 | Marcin Filipek, Poland | ROD01 | | Diego Rodriguez, Mallorca, Spain |
| FUKO2 | 16 | Hideo Fukushima, Tokyo, Japan | ROD03 | | Juan Rodríguez, Palma, Spain |
| GIA01 | | Antonio Giambersio, Italy | ROQ | | Paul Roques, AZ, U.S.A. |
| GRA04 | 24 | Bjoern Haakon Granslo, Norway | RZE | 18 | Zbigniew Rzepka, Poland |
| GRA09 | 18 | Krzysztof Graczeński, Poland | SAD | 18 | Piotr Sadowski, Poland |
| GRE | | Daniel W. E. Green, MA, U.S.A. | SAN04 | 38 | Juan M. San Juan, Madrid, Spain |
| GUZ | 18 | Piotr Guzik, Krosno, Poland | SAN07 | 32 | Gábor Sánta, Hungary |
| HAS02 | | Werner Hasubick, Germany | SAR02 | 32 | Krisztián Sárneckzy, Hungary |
| HAS08 | 16 | Yuji Hashimoto, Hiroshima, Japan | SCH04 | 11 | Alex H. Scholten, Netherlands |
| HOE | | Sebastian F. Hoenig, Germany | SCI | | Tomasz Sciezor, Poland |
| HORO2 | 23 | Kamil Hornoch, Czech Republic | SEA | 14 | David A. J. Seargent, Australia |
| JON | | Albert F. Jones, New Zealand | SEA01 | 14 | John Seach, Australia |
| KADO2 | 16 | Ken-ichi Kadota, Saitama, Japan | SEG | 38 | Carlos Segarra, Valencia, Spain |
| KAMO1 | | Andreas Kammerer, Germany | SER02 | | Jérôme Serant, Chevillon, France |
| KEMO1 | | Paul Kemp, Auckland, New Zealand | SHA02 | 07 | Jonathan D. Shanklin, England |
| *KEZ | 18 | Piotr Kezwon, Jasienica, Poland | SHA04 | | Gregory T. Shanos, U.S.A. |
| KIDO1 | 18 | Krzysztof Kida, Elbląg, Poland | SHU | | Sergey E. Shurpakov, Belarus |
| *KISO3 | 18 | Adam Kisielewicz, Turka, Poland | SIE | 33 | Henryk Sielewicz, Lithuania |
| KOP | | Joerg Kopplin, Germany | *SIK01 | 18 | Mieczyslaw Sikora, Poland |
| KOS | | Attila Kósa-Kiss, Romania | *SKR | 18 | Emilian Skrzynecki, Poland |
| KOU | 23 | Jakub Koukal, Czech Republic | SMY | 18 | Jaroslav Smyslo, Poland |
| KUB | 23 | Pavel Kubicek, Czech Republic | SOS | | Giovanni Sostero, Italy |
| KWI | 18 | Maciej Kwinta, Krakow, Poland | SOW | 16 | Toshihide Sowa, Wakayama, Japan |
| KYS | 23 | J. Kysely, Czech Republic | SPE01 | 18 | Jerzy Speil, Poland |
| LEG | 18 | Marian Legutko, Gliwice, Poland | STO03 | 07 | David Storey, Oxfordsh., England |
| LEH | | Martin Lehky, Czech Republic | SWI | 18 | Mariusz Swietnicki, Poland |
| LINO4 | | Mike Linnolt, HI, U.S.A. | TIC | | Milos Tichy, Czech Republic |
| LOO01 | | Frans R. van Loo, Belgium | TOT03 | 32 | Zoltán Tóth, Hungary |
| MAKO2 | 18 | Pawel Maksym, Lodz, Poland | TSU02 | 16 | Mitsunori Tsumura, Japan |
| MAN04 | | Luis Alberto Mansilla, Argentina | WAL03 | 18 | Lukasz Walec, Poland |
| *MAN05 | | Jose Manteca Vazquez, Spain | WAT01 | 16 | Nobuo Watanabe, Hokkaido, Japan |
| MARO2 | 13 | Jose Carvajal Martinez, Spain | WLO | 18 | Robert Wlodarczyk, Poland |
| MAR12 | 18 | Leszek Marcinek, Poland | YOS02 | 16 | Katsumi Yoshimoto, Japan |
| MAR13 | 18 | Jerzy Marcinek, Poland | YOS04 | 16 | Seiichi Yoshida, Ibaraki, Japan |
| MAT08 | | Michael Mattiazzo, S. Australia | ZAN | | Mauro Vittorio Zanotta, Italy |
| *MERO5 | 07 | Cliff Meredith, England | ZNO | 23 | Vladimír Znojil, Czech Republic |

TABULATED DATA

NOTE: The CCD and visual tabulated data are separated for the first time in this issue. For this issue only, the tabulated CCD data are given in the old format (see page 158 of this issue for more details); a new printed format will be displayed in the January 2002 issue for CCD data only.

The headings for the tabulated data are as follows: "DATE (UT)" = Date and time to hundredths of a day in Universal Time; "N" = notes [* = correction to observation published in earlier issue of the *ICQ*; an exclamation mark (!) in this same location indicates that the observer has corrected his estimate in some manner for atmospheric extinction (prior to September 1992, this was the standard symbol for noting extinction correction, but following publication of the extinction paper — July 1992 *ICQ* — this symbol is only to be used to denote corrections made using procedures different from that outlined by Green 1992, *ICQ* 14, 55-59, and in Appendix E of the *ICQ Guide to Observing Comets* — and then only for situations where the observed comet is at altitude $> 10^\circ$); '&' = comet observed at altitude 20° or less with no atmospheric extinction correction applied; '\$' = comet observed at altitude 10° or lower, observations corrected by the observer using procedure of Green (*ibid.*); for a correction applied by the observer using Tables Ia, Ib, or Ic of Green (*ibid.*), the letters 'a', 'w', or 's', respectively, should be used; x indicates that a secondary source (often amateur computer software) was used to get supposedly correct comparison-star magnitudes from an accepted catalogue].

"MM" = the method employed for estimating the total (visual) magnitude; see article on page 186 of the Oct. 1996 issue [B = VBM method, M = Morris method, S = VSS or In-Out method, I = in-focus, C = unfiltered CCD, c = same as 'C', but for 'nuclear' magnitudes, V = electronic observations — usually CCD — with Johnson V filter, etc.]. "MAG." = total (visual) magnitude estimate; a colon indicates that the observation is only approximate, due to bad weather conditions, etc.; a left bracket ([]) indicates that the comet was not seen, with an estimated limiting magnitude given (if the comet IS seen, and it is simply estimated to be fainter than a certain magnitude, a "greater-than" sign (>) must be used, not a bracket). "RF" = reference for total magnitude estimates (see pages 98-100 of the October 1992 issue, and Appendix C of the *ICQ Guide to Observing Comets*, for all of the 1- and 2-letter codes; an updated list is also maintained at the *ICQ* World Wide Website). "AP." = aperture in centimeters of the instrument used for the observations, usually given to tenths. "T" = type of instrument used for the observation (R = refractor, L = Newtonian reflector, B = binoculars, C = Cassegrain reflector, A = camera, T = Schmidt-Cassegrain reflector, S = Schmidt-Newtonian reflector, E = naked eye, etc.). "F/" and "PWR" are the focal ratio and power or magnification, respectively, of the instrument used for the observation — given to nearest whole integer (round even); note that for CCD observations, in place of magnification is given the exposure time in seconds [see page 11 of the January 1997 issue; a lower-case "a" indicates an exposure time under 1000 seconds, an upper-case "A" indicates an exposure time of 1000-1999 seconds (with the thousands digit replaced by the "A"), an upper-case "B" indicates an exposure time of 2000-2999 seconds (with the thousands digit replaced by the "B"), etc.].

"COMA" = estimated coma diameter in minutes of arc; an ampersand (&) indicates an approximate estimate; an exclamation mark (!) precedes a coma diameter when the comet was not seen (*i.e.*, was too faint) and where a limiting magnitude estimate is provided based on an "assumed" coma diameter (a default size of 1' or 30" is recommended; cf. *ICQ* 9, 100); a plus mark (+) precedes a coma diameter when a diaphragm was used electronically, thereby specifying the diaphragm size (*i.e.*, the coma is almost always larger than such a specified diaphragm size). "DC" = degree of condensation on a scale where 9 = stellar and 0 = diffuse (preceded by lower- and upper-case letters S and D to indicate the presence of stellar and disklike central condensations; cf. July 1995 issue, p. 90); a slash (/) indicates a value midway between the given number and the next-higher integer. "TAIL" = estimated tail length in degrees, to 0.01 degree if appropriate; again, an ampersand indicates a rough estimate. Lower-case letters between the tail length and the p.a. indicate that the tail was measured in arcmin ("m") or arcsec ("s"), in which cases the decimal point is shifted one column to the right. "PA" = estimated measured position angle of the tail to nearest whole integer in degrees (north = 0° , east = 90°). "OBS" = the observer who made the observation (given as a 3-letter, 2-digit code).

A complete list of the Keys to abbreviations used in the *ICQ* is available from the Editor for \$4.00 postpaid (available free of charge via e-mail); these Keys (with the exception of the Observer Codes) are also now available in the new *Guide to Observing Comets* and via the *ICQ*'s World Wide Web site. Please note that data in archival form, and thus the data to be sent in machine-readable form, use a format that is different from that of the Tabulated data in the printed pages of the *ICQ*; see pages 59-61 of the July 1992 issue, p. 10 of the January 1995 issue, and p. 100 of the April 1996 issue for further information [note correction on page 140 of the October 1993 issue]. Further guidelines concerning reporting of data may be found on pages 59-60 of the April 1993 issue, and in the *ICQ Guide to Observing Comets*.

◇ ◇ ◇

Non-Visual Data

Comet 2P/Encke

| DATE (UT) | N | MM | MAG. | RF | AP. | T | F/ | PWR | COMA | DC | TAIL | PA | OBS. |
|---------------|---|----|------|----|------|---|----|------|------|----|------|----|-------|
| 2001 08 28.66 | a | C | 19.7 | GA | 60.0 | Y | 6 | a240 | 0.2 | | | | NAK01 |

Comet 16P/Brooks

| DATE (UT) | N | MM | MAG. | RF | AP. | T | F/ | PWR | COMA | DC | TAIL | PA | OBS. |
|---------------|---|----|---------|----|------|---|----|------|------|----|------|-----|-------|
| 2001 07 16.74 | | | C 16.0 | TJ | 18.0 | L | 6 | a120 | 0.25 | | | | KAD02 |
| 2001 08 22.69 | | | C 16.0 | TJ | 18.0 | L | 6 | a180 | 0.3 | | 0.7m | 250 | KAD02 |
| 2001 08 27.81 | | | C 15.8: | GA | 60.0 | Y | 6 | a120 | 0.5 | | | 260 | NAK01 |
| 2001 09 23.76 | | | C 16.2 | TJ | 18.0 | L | 6 | a240 | 0.45 | | | | KAD02 |
| 2001 09 24.04 | | | C 16.0 | UO | 25.4 | T | 5 | a180 | | 7 | | | NAV01 |
| 2001 10 11.70 | | | C 16.6 | TJ | 18.0 | L | 6 | a180 | 0.35 | | 0.4m | 252 | KAD02 |
| 2001 10 26.73 | | | C 16.5 | TJ | 18.0 | L | 6 | a240 | 0.3 | | | | KAD02 |

Comet 19P/Borrelly

| DATE (UT) | N | MM | MAG. | RF | AP. | T | F/ | PWR | COMA | DC | TAIL | PA | OBS. |
|---------------|---|----|-----------|----|------|---|----|------|-------|----|--------|-----|-------|
| 2001 07 16.77 | | | C 12.9 | TJ | 18.0 | L | 6 | a 60 | 0.7 | | | | KAD02 |
| 2001 08 03.77 | | | C 12.4: | TJ | 18.0 | L | 6 | a 60 | 0.75 | | | | KAD02 |
| 2001 08 11.12 | | | & C 11.8 | HS | 10.5 | R | 5 | a060 | 0.5 | 2 | | | MOR09 |
| 2001 08 13.10 | | | & C 11.4 | HS | 10.5 | R | 5 | a060 | 0.8 | 2 | | | MOR09 |
| 2001 08 18.15 | | | & C 11.1 | HS | 10.5 | R | 5 | a060 | 1.0 | 2 | | | MOR09 |
| 2001 08 22.14 | | | ! C 11.3: | HI | 30 | T | 9 | a 60 | > 1 | D7 | | | ROD03 |
| 2001 08 22.78 | | | C 11.3 | TJ | 18.0 | L | 6 | a 40 | 1.8 | | | | KAD02 |
| 2001 08 24.13 | | | & C 11.6 | HS | 10.5 | R | 5 | a060 | 0.7 | 1 | | | MOR09 |
| 2001 08 24.79 | | | x C 11.4 | TT | 35.0 | C | 14 | a600 | 1.3 | 5 | 2.0m | 253 | TSU02 |
| 2001 08 25.15 | | | ! C 11.1 | HI | 30 | T | 9 | a 20 | > 1 | D7 | | | ROD03 |
| 2001 08 28.80 | | | a C 10.7 | GA | 60.0 | Y | 6 | a 60 | 3.4 | | > 6.2m | 256 | NAK01 |
| 2001 09 04.76 | | | C 11.1 | TJ | 18.0 | L | 6 | a 40 | 2.1 | | 1.6m | 265 | KAD02 |
| 2001 09 18.79 | | | C 10.9 | TJ | 18.0 | L | 6 | a 60 | 1.7 | | 0.8m | 263 | KAD02 |
| 2001 09 18.79 | | | x C 11.1 | HJ | 35.0 | C | 10 | a600 | 1.0 | 5 | 5.0m | 266 | TSU02 |
| 2001 09 19.15 | | | | | 40 | L | 4 | a180 | > 2.7 | D6 | > 3.8m | 274 | ROD03 |
| 2001 09 19.15 | | | ! C 12.3 | GA | 40 | L | 4 | a 8 | > 0.5 | D6 | > 1.5m | 274 | ROD03 |
| 2001 09 21.16 | | | ! C 12.8 | GA | 40 | L | 4 | a 5 | > 0.9 | D6 | > 2.4m | 274 | ROD03 |
| 2001 09 21.18 | | | | | 40 | L | 4 | a240 | > 2.4 | D6 | > 4.1m | 274 | ROD03 |
| 2001 09 22.71 | | | C 10.8 | TJ | 18.0 | L | 6 | a 60 | 2.5 | | 2.3m | 267 | KAD02 |
| 2001 09 23.13 | | | C 11.2 | HS | 20.3 | L | 6 | a060 | 0.4 | 1 | | | MOR09 |
| 2001 09 23.82 | | | C 10.6 | TJ | 18.0 | L | 6 | a 40 | 2.6 | | | | KAD02 |
| 2001 09 24.12 | | | c 13.3 | UO | 25.4 | T | 5 | a 20 | 8.0 | 4 | 40 s | 252 | NAV01 |
| 2001 09 28.78 | | | C 10.6 | TJ | 18.0 | L | 6 | a 90 | 2.8 | | 4.9m | 268 | KAD02 |
| 2001 10 02.74 | | | C 10.7 | TJ | 18.0 | L | 6 | a 60 | 2.7 | | 3.4m | 271 | KAD02 |
| 2001 10 12.81 | | | C 10.9 | TJ | 18.0 | L | 6 | a 60 | 2.6 | | 6.2m | 278 | KAD02 |
| 2001 10 14.16 | | | C 11.1 | HS | 5.7 | R | 4 | a060 | 0.8 | 1 | 1.3m | 295 | MOR09 |
| 2001 10 19.78 | | | C 10.8 | TJ | 18.0 | L | 6 | a 60 | 2.3 | | 4.3m | 281 | KAD02 |
| 2001 10 26.77 | | | C 11.2 | TJ | 18.0 | L | 6 | a 90 | 1.9 | | 3.0m | 286 | KAD02 |

Comet 24P/Schaumasse

| DATE (UT) | N | MM | MAG. | RF | AP. | T | F/ | PWR | COMA | DC | TAIL | PA | OBS. |
|---------------|---|----|-----------|----|------|---|----|------|------|----|------|----|-------|
| 2001 08 13.45 | | | x C 15.9: | TT | 35.0 | C | 14 | a180 | 0.3 | 3 | | | TSU02 |

Comet 29P/Schwassmann-Wachmann

| DATE (UT) | N | MM | MAG. | RF | AP. | T | F/ | PWR | COMA | DC | TAIL | PA | OBS. |
|---------------|---|----|-----------|----|------|---|----|------|------|----|------|----|-------|
| 2001 07 24.58 | | | x C 12.1: | TT | 35.0 | C | 14 | a720 | 0.7 | 2 | | | TSU02 |
| 2001 08 13.51 | | | x C 12.0 | TT | 35.0 | C | 14 | a720 | 0.7 | 5 | | | TSU02 |
| 2001 08 18.54 | | | x C 12.2 | TT | 35.0 | C | 14 | a600 | 1.0 | 3 | | | TSU02 |

Comet 30P/Reinmuth

| DATE (UT) | N | MM | MAG. | RF | AP. | T | F/ | PWR | COMA | DC | TAIL | PA | OBS. |
|---------------|---|----|----------|----|-------|---|----|------|------|----|------|----|------|
| 2001 09 22.70 | | | ! k 20.3 | LA | 103.0 | C | 4 | a240 | | 9 | | | ORI |
| 2001 10 13.68 | | | ! k 19.9 | LA | 103.0 | C | 4 | a240 | | 9 | | | ORI |

Comet 44P/Reinmuth

| DATE (UT) | N | MM | MAG. | RF | AP. | T | F/ | PWR | COMA | DC | TAIL | PA | OBS. |
|---------------|---|----|------------|----|------|---|----|------|------|----|------|-----|-------|
| 2001 08 24.82 | | | xa C 16.8: | TT | 35.0 | C | 14 | a240 | 0.3 | 4 | | | TSU02 |
| 2001 08 28.79 | | | C 16.6 | GA | 60.0 | Y | 6 | a120 | 0.5 | | 0.8m | 261 | NAK01 |
| 2001 09 18.77 | | | xa C 16.0 | HJ | 35.0 | C | 10 | a960 | 0.3 | 3 | | | TSU02 |
| 2001 09 23.79 | | | C 16.6 | TJ | 18.0 | L | 6 | a240 | 0.3 | | | | KAD02 |

Comet 44P/Reinmuth [cont.]

| DATE (UT) | N | MM | MAG. | RF | AP. | T | F/ | PWR | COMA | DC | TAIL | PA | OBS. |
|---------------|----|----|--------|----|------|---|----|------|------|----|------|----|-------|
| 2001 09 24.07 | | | C 16.9 | UD | 25.4 | T | 5 | a180 | | 7 | | | NAV01 |
| 2001 10 14.84 | xa | | C 17.2 | HJ | 35.0 | C | 9 | a600 | 0.3 | 4 | | | TSU02 |

Comet 51P/Harrington (component A)

| DATE (UT) | N | MM | MAG. | RF | AP. | T | F/ | PWR | COMA | DC | TAIL | PA | OBS. |
|---------------|---|----|---------|----|------|---|----|------|------|----|------|-----|-------|
| 2001 07 12.74 | | | C 15.1 | TJ | 18.0 | L | 6 | a120 | 0.4 | | 1.8m | 250 | KAD02 |
| 2001 07 21.76 | | | C 15.5 | TJ | 18.0 | L | 6 | a120 | 0.35 | | 0.8m | 247 | KAD02 |
| 2001 08 22.77 | | | C 16.2 | TJ | 18.0 | L | 6 | a120 | 0.3 | | 1.1m | 255 | KAD02 |
| 2001 08 27.80 | | | C 16.1 | GA | 60.0 | Y | 6 | a120 | 0.45 | | 4.1m | 259 | NAK01 |
| 2001 09 23.74 | | | C 14.6 | HJ | 35.0 | C | 10 | a120 | 0.3 | 4 | 0.7m | 270 | TSU02 |
| 2001 09 23.76 | | | C 14.3 | TJ | 18.0 | L | 6 | a240 | 0.6 | | 0.5m | 276 | KAD02 |
| 2001 09 24.74 | | | C 14.2 | TJ | 18.0 | L | 6 | a240 | 0.7 | | 0.5m | 277 | KAD02 |
| 2001 09 28.82 | | | C 14.2 | TJ | 18.0 | L | 6 | a 90 | 0.6 | | 0.6m | 270 | KAD02 |
| 2001 10 02.73 | | | C 14.3 | TJ | 18.0 | L | 6 | a120 | 0.55 | | 0.7m | 270 | KAD02 |
| 2001 10 12.78 | | | C 14.7 | TJ | 18.0 | L | 6 | a180 | 0.5 | | 1.0m | 273 | KAD02 |
| 2001 10 19.77 | | | C 15.2 | TJ | 18.0 | L | 6 | a180 | 0.4 | | 0.9m | 274 | KAD02 |
| 2001 10 26.74 | | | C 15.8: | TJ | 18.0 | L | 6 | a180 | 0.35 | | | | KAD02 |

Comet 71P/Clark

| DATE (UT) | N | MM | MAG. | RF | AP. | T | F/ | PWR | COMA | DC | TAIL | PA | OBS. |
|---------------|---|----|--------|----|------|---|----|------|------|----|------|-----|-------|
| 2001 08 28.75 | | | C 18.9 | GA | 60.0 | Y | 6 | a240 | 0.3 | | 0.8m | 243 | NAK01 |
| 2001 10 14.65 | | | C 18.5 | GA | 60.0 | Y | 6 | a240 | 0.3 | | | | NAK01 |

Comet 73P/Schwassmann-Wachmann (component C)

| DATE (UT) | N | MM | MAG. | RF | AP. | T | F/ | PWR | COMA | DC | TAIL | PA | OBS. |
|---------------|---|----|--------|----|------|---|----|------|------|----|------|-----|-------|
| 2001 07 16.75 | | | C 16.8 | TJ | 18.0 | L | 6 | a180 | 0.25 | | | | KAD02 |
| 2001 08 28.76 | | | C 18.0 | GA | 60.0 | Y | 6 | a240 | 0.6 | | 3.0m | 242 | NAK01 |

Comet 107P/Wilson-Harrington

| DATE (UT) | N | MM | MAG. | RF | AP. | T | F/ | PWR | COMA | DC | TAIL | PA | OBS. |
|---------------|---|----|--------|----|------|---|----|------|------|----|------|----|-------|
| 1997 01 12.41 | | | C 18.6 | GA | 60.0 | Y | 6 | a120 | | 9 | | | NAK01 |

Comet 116P/Wild

| DATE (UT) | N | MM | MAG. | RF | AP. | T | F/ | PWR | COMA | DC | TAIL | PA | OBS. |
|---------------|---|----|---------|----|------|---|----|------|------|----|------|----|-------|
| 2001 10 12.77 | | | C 17.6: | TJ | 18.0 | L | 6 | a180 | 0.2 | | | | KAD02 |

Comet 124P/Mrkos

| DATE (UT) | N | MM | MAG. | RF | AP. | T | F/ | PWR | COMA | DC | TAIL | PA | OBS. |
|---------------|---|----|------|----|-------|---|----|------|------|----|------|----|------|
| 2001 09 22.79 | ! | k | 20.2 | LA | 103.0 | C | 4 | a240 | | 9 | | | ORI |
| 2001 10 13.72 | ! | k | 19.8 | LA | 103.0 | C | 4 | a240 | | 9 | | | ORI |

Comet 151P/Helin

| DATE (UT) | N | MM | MAG. | RF | AP. | T | F/ | PWR | COMA | DC | TAIL | PA | OBS. |
|---------------|---|----|--------|----|-------|---|----|------|------|----|------|----|-------|
| 2001 08 15.07 | | | C 17.6 | UD | 57.0 | P | 5 | a 90 | | | | | TIC |
| 2001 08 28.69 | | | C 17.8 | GA | 60.0 | Y | 6 | a240 | 0.4 | | | | NAK01 |
| 2001 09 18.62 | | | C 17.2 | GA | 60.0 | Y | 6 | a240 | 0.4 | | | | NAK01 |
| 2001 10 13.59 | | | C 17.6 | GA | 60.0 | Y | 6 | a240 | 0.35 | | | | NAK01 |
| 2001 10 13.66 | ! | k | 17.1 | LA | 103.0 | C | 4 | a240 | 0.3 | | | | ORI |

Comet C/1997 BA6 (Spacewatch)

| DATE (UT) | N | MM | MAG. | RF | AP. | T | F/ | PWR | COMA | DC | TAIL | PA | OBS. |
|---------------|---|----|--------|----|------|---|----|------|------|----|------|----|-------|
| 2001 07 12.70 | | | C 15.6 | TJ | 18.0 | L | 6 | a180 | 0.55 | | | | KAD02 |
| 2001 07 30.96 | | | C 14.6 | UD | 57.0 | P | 5 | a120 | & 1 | | | | TIC |
| 2001 08 13.65 | x | | C 16.0 | HV | 35.0 | C | 14 | a840 | 0.3 | 4 | | | TSU02 |
| 2001 08 27.59 | | | C 15.4 | GA | 60.0 | Y | 6 | a120 | 0.8 | | | | NAK01 |
| 2001 09 12.57 | x | | C 16.5 | HJ | 35.0 | C | 14 | a960 | 0.4 | 4 | | | TSU02 |
| 2001 09 16.51 | | | C 15.3 | GA | 60.0 | Y | 6 | a120 | 1.1 | | | | NAK01 |

Comet C/1997 BA6 (Spacewatch) [cont.]

| DATE (UT) | N | MM | MAG. | RF | AP. | T | F/ | PWR | COMA | DC | TAIL | PA | OBS. |
|---------------|---|----|------|----|------|---|----|------|------|----|------|----|-------|
| 2001 09 22.51 | | C | 16.4 | TJ | 18.0 | L | 6 | a180 | 0.5 | | | | KAD02 |
| 2001 09 23.93 | | C | 16.0 | UO | 25.4 | T | 5 | a180 | | 7 | | | NAV01 |
| 2001 10 04.83 | | C | 16.5 | UO | 25.4 | T | 5 | a300 | | 5 | | | NAV01 |
| 2001 10 07.83 | | C | 16.8 | UO | 25.4 | T | 5 | a180 | | 5 | | | NAV01 |
| 2001 10 11.51 | x | C | 15.4 | TT | 35.0 | C | 9 | a960 | 0.4 | 3 | | | TSU02 |
| 2001 10 13.46 | | C | 16.5 | TJ | 18.0 | L | 6 | a180 | 0.4 | | | | KAD02 |

Comet C/1999 J2 (Skiff)

| DATE (UT) | N | MM | MAG. | RF | AP. | T | F/ | PWR | COMA | DC | TAIL | PA | OBS. |
|---------------|---|-----|------|----|------|---|----|------|------|----|------|----|-------|
| 2001 07 14.89 | | d k | 16.3 | FD | 35 | L | 5 | a600 | 0.35 | | | | HOR02 |
| 2001 08 22.47 | x | C | 17.3 | TJ | 60.0 | Y | 6 | a120 | 0.3 | | | 25 | NAK01 |

Comet C/1999 K8 (LINEAR)

| DATE (UT) | N | MM | MAG. | RF | AP. | T | F/ | PWR | COMA | DC | TAIL | PA | OBS. |
|---------------|---|----|------|----|------|---|----|------|------|----|------|----|-------|
| 2001 10 14.74 | x | C | 17.3 | HV | 60.0 | Y | 6 | a120 | 0.45 | | | | NAK01 |

Comet C/1999 S2 (McNaught-Watson)

| DATE (UT) | N | MM | MAG. | RF | AP. | T | F/ | PWR | COMA | DC | TAIL | PA | OBS. |
|---------------|---|----|------|----|------|---|----|------|------|----|------|----|-------|
| 2001 10 14.73 | x | C | 18.7 | HV | 60.0 | Y | 6 | a240 | 0.3 | | | | NAK01 |

Comet C/1999 T1 (McNaught-Hartley)

| DATE (UT) | N | MM | MAG. | RF | AP. | T | F/ | PWR | COMA | DC | TAIL | PA | OBS. |
|---------------|---|-----|-------|----|------|---|----|------|--------|----|------|-------|-------|
| 2001 02 15.09 | | d k | 9.9 | LB | 35 | L | 5 | a540 | + 1.60 | | >10 | m 253 | HOR02 |
| 2001 02 16.10 | | d k | 10.0 | LB | 35 | L | 5 | a300 | + 1.60 | | 12 | m 251 | HOR02 |
| 2001 06 26.63 | | C | 15.8 | TJ | 18.0 | L | 6 | a180 | 0.45 | | | | KAD02 |
| 2001 07 01.54 | | C | 15.5 | TJ | 18.0 | L | 6 | a180 | 0.5 | | | | KAD02 |
| 2001 07 14.93 | | d k | 14.0 | FD | 35 | L | 5 | a600 | 2.2 | | 6 | m 240 | HOR02 |
| 2001 07 28.97 | | d k | 14.2 | FD | 35 | L | 5 | a720 | 1.5 | | 5.5m | 228 | HOR02 |
| 2001 07 31.02 | | d k | 14.2 | FD | 35 | L | 5 | a720 | 1.5 | | 7 | m 230 | HOR02 |
| 2001 08 11.05 | | C | 15.9 | HS | 14.3 | D | 4 | a060 | 0.3 | 0 | | | MOR09 |
| 2001 08 13.49 | x | C | 16.2 | HJ | 35.0 | C | 14 | A560 | 0.3 | 4 | | | TSU02 |
| 2001 08 15.86 | | d k | 15.2 | FD | 35 | L | 5 | a720 | 1.2 | | | | HOR02 |
| 2001 08 16.84 | | d k | 15.1 | FD | 35 | L | 5 | a720 | 1.1 | | | | HOR02 |
| 2001 08 22.49 | | C | 16.1 | GA | 60.0 | Y | 6 | a120 | 0.75 | | | | NAK01 |
| 2001 08 25.81 | | d k | 15.4: | FD | 35 | L | 5 | a420 | 1.1 | | | | HOR02 |
| 2001 09 04.44 | x | C | 16.0 | HJ | 35.0 | C | 14 | A320 | 0.4 | 4 | | | TSU02 |
| 2001 10 11.43 | x | C | 15.9 | HJ | 35.0 | C | 9 | a360 | 0.4 | 3 | | | TSU02 |
| 2001 10 12.46 | | C | 17.0 | GA | 60.0 | Y | 6 | a120 | 0.6 | | | | NAK01 |

Comet C/1999 T2 (LINEAR)

| DATE (UT) | N | MM | MAG. | RF | AP. | T | F/ | PWR | COMA | DC | TAIL | PA | OBS. |
|---------------|---|----|------|----|------|---|----|------|------|----|------|----|-------|
| 2001 07 01.53 | | C | 14.6 | TJ | 18.0 | L | 6 | a180 | 0.55 | | | | KAD02 |

Comet C/1999 U4 (Catalina-Skiff)

| DATE (UT) | N | MM | MAG. | RF | AP. | T | F/ | PWR | COMA | DC | TAIL | PA | OBS. |
|---------------|---|-----|------|----|------|---|----|------|------|----|------|-----|-------|
| 2001 08 22.65 | | C | 16.1 | TJ | 18.0 | L | 6 | a180 | 0.35 | | | | KAD02 |
| 2001 08 30.07 | | d k | 15.6 | LB | 35 | L | 5 | a810 | 0.6 | | 1.1m | 270 | HOR02 |
| 2001 09 22.64 | | C | 16.6 | TJ | 18.0 | L | 6 | a180 | 0.35 | | | | KAD02 |
| 2001 09 24.77 | | C | 16.3 | TJ | 18.0 | L | 6 | a240 | 0.4 | | | | KAD02 |
| 2001 10 12.83 | | C | 16.3 | TJ | 18.0 | L | 6 | a180 | 0.4 | | 0.6m | 305 | KAD02 |
| 2001 10 23.67 | | C | 16.1 | TJ | 18.0 | L | 6 | a180 | 0.45 | | | | KAD02 |

Comet C/1999 Y1 (LINEAR)

| DATE (UT) | N | MM | MAG. | RF | AP. | T | F/ | PWR | COMA | DC | TAIL | PA | OBS. |
|---------------|---|----|-------|----|------|---|----|------|------|----|------|----|-------|
| 2001 07 01.71 | | C | 13.7 | TJ | 18.0 | L | 6 | a 90 | 0.4 | | | | KAD02 |
| 2001 07 16.71 | | C | 13.3 | TJ | 18.0 | L | 6 | a 60 | 0.8 | | | | KAD02 |
| 2001 07 17.76 | | C | 13.1 | TJ | 18.0 | L | 6 | a 60 | 0.9 | | | | KAD02 |
| 2001 08 03.75 | | C | 14.1: | TJ | 18.0 | L | 6 | a 60 | 0.5 | | | | KAD02 |

Comet C/1999 Y1 (LINEAR) [cont.]

| DATE (UT) | N | MM | MAG. | RF | AP. | T | F/ | PWR | COMA | DC | TAIL | PA | OBS. |
|---------------|---|----|------|----|------|---|----|------|------|----|------|----|-------|
| 2001 08 18.68 | x | C | 12.5 | TT | 35.0 | C | 14 | a360 | 1.5 | 5 | 4.0m | 10 | TSU02 |
| 2001 08 22.67 | | C | 12.4 | TJ | 18.0 | L | 6 | a 60 | 1.2 | | | | KAD02 |
| 2001 08 27.71 | x | C | 12.4 | HV | 60.0 | Y | 6 | a120 | 1.9 | | | | NAK01 |

Comet C/2000 K2 (LINEAR)

| DATE (UT) | N | MM | MAG. | RF | AP. | T | F/ | PWR | COMA | DC | TAIL | PA | OBS. |
|---------------|---|----|------|----|------|---|----|------|------|----|------|-----|-------|
| 2001 08 27.77 | | C | 16.7 | GA | 60.0 | Y | 6 | a240 | 0.5 | | 1.7m | 256 | NAK01 |
| 2001 09 18.68 | | C | 16.6 | GA | 60.0 | Y | 6 | a120 | 0.5 | | 1.7m | 266 | NAK01 |
| 2001 09 24.70 | | C | 16.5 | TJ | 18.0 | L | 6 | a240 | 0.3 | | | | KAD02 |
| 2001 10 13.59 | | C | 16.7 | TJ | 18.0 | L | 6 | a240 | 0.3 | | | | KAD02 |
| 2001 10 14.63 | | C | 16.4 | GA | 60.0 | Y | 6 | a120 | 0.45 | | 2.0m | 276 | NAK01 |

Comet C/2000 SV74 (LINEAR)

| DATE (UT) | N | MM | MAG. | RF | AP. | T | F/ | PWR | COMA | DC | TAIL | PA | OBS. |
|---------------|----|----|-------|----|------|---|----|------|------|----|------|-----|-------|
| 2001 06 27.72 | | C | 15.0 | TJ | 18.0 | L | 6 | a180 | 0.4 | | | | KAD02 |
| 2001 07 10.67 | | C | 14.9 | TJ | 18.0 | L | 6 | a120 | 0.5 | | | | KAD02 |
| 2001 07 21.69 | | C | 14.8 | TJ | 18.0 | L | 6 | a180 | 0.55 | | | | KAD02 |
| 2001 07 28.99 | d | k | 14.1 | FD | 35 | L | 5 | a630 | 0.8 | | | | HOR02 |
| 2001 07 31.03 | d | k | 14.2 | FD | 35 | L | 5 | a450 | 0.8 | | | | HOR02 |
| 2001 08 01.06 | d | k | 14.2 | FD | 35 | L | 5 | a630 | 0.8 | | | | HOR02 |
| 2001 08 03.70 | | C | 15.1: | TJ | 18.0 | L | 6 | a180 | 0.55 | | | | KAD02 |
| 2001 08 15.92 | d | k | 13.9 | FD | 35 | L | 5 | a720 | 0.8 | | | | HOR02 |
| 2001 08 16.93 | d | k | 13.9 | FD | 35 | L | 5 | a720 | 0.9 | | | | HOR02 |
| 2001 08 22.64 | | C | 14.4 | TJ | 18.0 | L | 6 | a180 | 0.8 | | | | KAD02 |
| 2001 08 25.88 | d | k | 13.8 | FD | 35 | L | 5 | a540 | 0.8 | | | | HOR02 |
| 2001 08 26.07 | | C | 14.9 | HS | 10.5 | R | 5 | a060 | 0.3 | 0 | 1.5m | 255 | MOR09 |
| 2001 08 27.74 | | C | 14.1 | GA | 60.0 | Y | 6 | a120 | 1.3 | | | | NAK01 |
| 2001 09 04.70 | | C | 14.2 | TJ | 18.0 | L | 6 | a120 | 0.7 | | | | KAD02 |
| 2001 09 18.81 | | C | 14.2 | TJ | 18.0 | L | 6 | a 90 | 0.55 | | | | KAD02 |
| 2001 09 22.56 | | C | 14.0 | TJ | 18.0 | L | 6 | a 90 | 0.8 | | | | KAD02 |
| 2001 09 23.02 | | C | 14.6 | HS | 20.3 | L | 6 | a060 | 0.3 | 0 | | | MOR09 |
| 2001 09 28.71 | | C | 13.6 | GA | 60.0 | Y | 6 | a120 | 1.3 | | | | NAK01 |
| 2001 10 02.72 | | C | 14.1 | TJ | 18.0 | L | 6 | a120 | 0.8 | | | | KAD02 |
| 2001 10 11.54 | xa | C | 14.4 | HJ | 35.0 | C | 9 | a420 | 0.7 | 4 | | | TSU02 |
| 2001 10 11.68 | | C | 13.7 | TJ | 18.0 | L | 6 | a120 | 0.85 | | | | KAD02 |
| 2001 10 13.47 | | C | 13.7 | TJ | 18.0 | L | 6 | a120 | 0.9 | | | | KAD02 |
| 2001 10 13.57 | | C | 13.3 | GA | 60.0 | Y | 6 | a120 | 1.6 | | | | NAK01 |
| 2001 10 14.14 | | C | 12.8 | HS | 5.7 | R | 4 | a060 | 0.7 | 0 | | | MOR09 |
| 2001 10 14.86 | | c | 15.2 | HS | 20 | T | 10 | a 30 | | 4 | | | ROD01 |
| 2001 10 19.74 | | C | 13.6 | TJ | 18.0 | L | 6 | a 90 | 0.85 | | | | KAD02 |
| 2001 10 23.64 | | C | 13.7 | TJ | 18.0 | L | 6 | a 90 | 0.9 | | | | KAD02 |
| 2001 10 26.72 | | C | 13.8 | TJ | 18.0 | L | 6 | a120 | 0.8 | | | | KAD02 |

Comet C/2000 WM1 (LINEAR)

| DATE (UT) | N | MM | MAG. | RF | AP. | T | F/ | PWR | COMA | DC | TAIL | PA | OBS. |
|---------------|---|----|------|----|------|---|----|------|-------|----|--------|-----|-------|
| 2001 07 10.68 | | C | 16.0 | TJ | 18.0 | L | 6 | a180 | 0.3 | | | | KAD02 |
| 2001 07 29.01 | d | k | 15.1 | FD | 35 | L | 5 | a810 | 0.5 | | 0.4m | 294 | HOR02 |
| 2001 07 31.05 | d | k | 14.8 | FD | 35 | L | 5 | a720 | 0.5 | | 0.6m | 296 | HOR02 |
| 2001 08 01.08 | d | k | 14.6 | FD | 35 | L | 5 | a720 | 0.55 | | 0.6m | 296 | HOR02 |
| 2001 08 13.12 | ! | C | 16.1 | GA | 40 | L | 5 | a240 | > 0.5 | s7 | > 1.1m | 290 | ROD03 |
| 2001 08 14.03 | | C | 15.1 | HS | 10.5 | R | 5 | a060 | 0.4 | 0 | | | MOR09 |
| 2001 08 15.99 | d | k | 14.5 | FD | 35 | L | 5 | a720 | 0.6 | | 1.0m | 289 | HOR02 |
| 2001 08 16.97 | d | k | 14.5 | FD | 35 | L | 5 | a600 | 0.55 | | 1.1m | 289 | HOR02 |
| 2001 08 22.11 | ! | C | 16.2 | GA | 30 | T | 9 | a240 | > 0.4 | s7 | > 1.0m | 290 | ROD03 |
| 2001 08 22.75 | | C | 14.8 | TJ | 18.0 | L | 6 | a120 | 0.45 | | 1.2m | 290 | KAD02 |
| 2001 08 23.09 | | C | 13.5 | HS | 20.3 | L | 6 | a060 | 0.4 | 2 | 0.7m | 263 | MOR09 |
| 2001 08 24.74 | x | C | 15.4 | HV | 35.0 | C | 14 | a600 | 0.3 | 4 | 1.5m | 280 | TSU02 |
| 2001 08 25.11 | ! | C | 15.9 | GA | 30 | T | 9 | a240 | > 0.5 | s6 | > 1.5m | 294 | ROD03 |
| 2001 08 25.96 | d | k | 14.2 | FD | 35 | L | 5 | a630 | 0.6 | | 1.2m | 272 | HOR02 |
| 2001 08 25.98 | | C | 13.9 | HS | 10.5 | R | 5 | a060 | 0.3 | 0 | | | MOR09 |
| 2001 08 27.79 | | C | 14.4 | GA | 60.0 | Y | 6 | a120 | 0.75 | | 1.9m | 288 | NAK01 |
| 2001 09 04.79 | | C | 14.4 | TJ | 18.0 | L | 6 | a120 | 0.6 | | 1.3m | 280 | KAD02 |

Comet C/2000 WM1 (LINEAR) [cont.]

| DATE (UT) | N | MM | MAG. | RF | AP. | T | F/ | PWR | COMA | DC | TAIL | PA | OBS. |
|---------------|---|----|------|----|------|---|----|------|-------|----|--------|-----|-------|
| 2001 09 17.65 | x | C | 14.5 | HJ | 35.0 | C | 14 | a480 | 0.5 | 4 | 2.0m | 275 | TSU02 |
| 2001 09 18.72 | | C | 13.5 | TJ | 18.0 | L | 6 | a120 | 0.55 | | 0.7m | 274 | KAD02 |
| 2001 09 19.06 | ! | C | 15.5 | GA | 40 | L | 4 | a240 | > 0.8 | D5 | > 2.1m | 278 | ROD03 |
| 2001 09 22.63 | | C | 12.6 | TJ | 18.0 | L | 6 | a180 | 1.1 | | 1.9m | 275 | KAD02 |
| 2001 09 25.05 | ! | C | 15.0 | GA | 40 | L | 4 | a240 | > 0.9 | D6 | > 2.0m | 276 | ROD03 |
| 2001 09 28.70 | | C | 12.5 | TJ | 18.0 | L | 6 | a 90 | 0.9 | | 2.6m | 273 | KAD02 |
| 2001 10 02.68 | | C | 12.3 | TJ | 18.0 | L | 6 | a 60 | 1.0 | | 2.3m | 273 | KAD02 |
| 2001 10 03.89 | | C | 11.3 | HS | 20 | T | 6 | 300 | 1.5 | | | | GIA01 |
| 2001 10 11.61 | | C | 12.0 | TJ | 18.0 | L | 6 | a 90 | 0.95 | | 2.4m | 270 | KAD02 |
| 2001 10 12.70 | | C | 11.6 | TJ | 18.0 | L | 6 | a 90 | 1.3 | | 2.6m | 268 | KAD02 |
| 2001 10 13.61 | x | C | 10.7 | HJ | 35.0 | C | 9 | a120 | 0.8 | 5 | 5.0m | 275 | TSU02 |
| 2001 10 13.62 | | C | 11.4 | TJ | 18.0 | L | 6 | a120 | 1.6 | | 2.7m | 266 | KAD02 |
| 2001 10 14.07 | | C | 11.4 | HS | 5.7 | R | 4 | a060 | 0.5 | 2 | 3.4m | 249 | MOR09 |
| 2001 10 19.75 | | C | 10.9 | TJ | 18.0 | L | 6 | a 60 | 1.9 | | 3.0m | 263 | KAD02 |
| 2001 10 23.63 | | C | 10.9 | TJ | 18.0 | L | 6 | a 60 | 2.3 | | 3.6m | 262 | KAD02 |
| 2001 10 24.69 | | C | 10.4 | GA | 60.0 | Y | 6 | a120 | 4.5 | | > 9.3m | 261 | NAK01 |
| 2001 10 26.76 | | C | 10.5 | TJ | 18.0 | L | 6 | a 60 | 2.8 | | 4.0m | 260 | KAD02 |

Comet C/2001 A2 (LINEAR)

| DATE (UT) | N | MM | MAG. | RF | AP. | T | F/ | PWR | COMA | DC | TAIL | PA | OBS. |
|---------------|---|------|-------|------|------|---|------|-------|-------|----|--------|-----|-------|
| 2001 07 30.71 | s | H | 9.5 | LA | 50.0 | C | 12 | a360 | 6 | 4 | > 6.7m | 205 | FUK02 |
| 2001 07 31.68 | s | H | 9.0 | LA | 50.0 | C | 12 | a180 | 4.9 | 4 | > 6.7m | 205 | FUK02 |
| 2001 07 31.78 | s | V | 10.3 | LA | 50.0 | C | 12 | a180 | 4.9 | 4 | > 6.7m | 205 | FUK02 |
| 2001 08 03.63 | | C | 10.5 | TJ | 18.0 | L | 6 | a 60 | 2.6 | | 1.9m | 195 | KAD02 |
| 2001 08 04.89 | | C | 10.1 | HS | 10.5 | R | 5 | a060 | 1.2 | 1 | 2.2m | 173 | MOR09 |
| 2001 08 08.92 | | C | 11.0 | HS | 10.5 | R | 5 | a060 | 1.0 | 1 | 7.3m | 186 | MOR09 |
| 2001 08 10.89 | | C | 10.8 | HS | 10.5 | R | 5 | a060 | 1.2 | 2 | 5.2m | 188 | MOR09 |
| 2001 08 11.92 | | C | 10.6 | HS | 10.5 | R | 5 | a060 | 1 | 1 | 7.2m | 180 | MOR09 |
| 2001 08 12.92 | | C | 11.2 | HS | 10.5 | R | 5 | a060 | 0.8 | 1 | 6.7m | 156 | MOR09 |
| 2001 08 13.96 | | C | 11.8 | HS | 10.5 | R | 5 | a060 | 0.7 | 1 | 3.9m | 176 | MOR09 |
| 2001 08 14.56 | | C | 11.5 | TJ | 18.0 | L | 6 | a 60 | 2.2 | | 1.0m | 183 | KAD02 |
| 2001 08 18.00 | | C | 12.0 | HS | 10.5 | R | 5 | a060 | 0.7 | 1 | 4.5m | 180 | MOR09 |
| 2001 08 18.14 | J | 9.7 | SC | 25.4 | T | 5 | a100 | 5.26 | s5 | ? | | | ROQ |
| 2001 08 20.84 | H | 12.2 | HI | 31 | T | 3 | a300 | + 0.7 | | | | | SOS |
| 2001 08 20.84 | H | 13.2 | HI | 31 | T | 3 | a300 | + 0.2 | | | | | SOS |
| 2001 08 20.87 | J | 12.8 | HI | 31 | T | 3 | a300 | + 0.7 | | | | | SOS |
| 2001 08 20.87 | J | 14.1 | HI | 31 | T | 3 | a300 | + 0.2 | | | | | SOS |
| 2001 08 20.87 | k | 12.6 | HI | 31 | T | 3 | a300 | + 0.7 | | | | | SOS |
| 2001 08 20.87 | k | 13.6 | HI | 31 | T | 3 | a300 | + 0.2 | | | | | SOS |
| 2001 08 20.89 | L | 13.5 | HI | 31 | T | 3 | a300 | + 0.7 | | | | | SOS |
| 2001 08 22.56 | C | 12.0 | TJ | 18.0 | L | 6 | a120 | 1.9 | | | 0.7m | 150 | KAD02 |
| 2001 08 23.98 | C | 13.0 | HS | 10.5 | R | 5 | a060 | 0.4 | 0 | | | | MOR09 |
| 2001 08 24.97 | C | 12.8 | HS | 10.5 | R | 5 | a060 | 0.6 | 0 | | | | MOR09 |
| 2001 08 25.14 | J | 10.7 | SC | 25.4 | T | 5 | a100 | 5.70 | s5 | ? | | | ROQ |
| 2001 08 25.95 | C | 12.6 | HS | 10.5 | R | 5 | a060 | 0.8 | 2 | | 0.7m | 169 | MOR09 |
| 2001 08 27.58 | C | 11.5 | GA | 60.0 | Y | 6 | a 60 | 2.7 | | | | | NAK01 |
| 2001 09 05.88 | H | 13.1 | HI | 31 | T | 3 | a300 | + 0.5 | | | | | SOS |
| 2001 09 05.88 | H | 13.9 | HI | 31 | T | 3 | a300 | + 0.2 | | | | | SOS |
| 2001 09 05.89 | J | 13.8 | HI | 31 | T | 3 | a300 | + 0.5 | | | | | SOS |
| 2001 09 05.89 | J | 14.9 | HI | 31 | T | 3 | a300 | + 0.2 | | | | | SOS |
| 2001 09 05.89 | k | 13.5 | HI | 31 | T | 3 | a300 | + 0.5 | | | | | SOS |
| 2001 09 05.89 | k | 14.4 | HI | 31 | T | 3 | a300 | + 0.2 | | | | | SOS |
| 2001 09 09.86 | H | 13.9 | HI | 31 | T | 3 | a300 | + 0.5 | | | | | SOS |
| 2001 09 09.86 | H | 14.3 | HI | 31 | T | 3 | a300 | + 0.2 | | | | | SOS |
| 2001 09 09.86 | k | 14.3 | HI | 31 | T | 3 | a300 | + 0.5 | | | | | SOS |
| 2001 09 09.86 | k | 14.8 | HI | 31 | T | 3 | a300 | + 0.2 | | | | | SOS |
| 2001 09 09.87 | J | 14.5 | HI | 31 | T | 3 | a300 | + 0.5 | | | | | SOS |
| 2001 09 09.87 | J | 15.1 | HI | 31 | T | 3 | a300 | + 0.2 | | | | | SOS |
| 2001 09 12.51 | x | C | 14.8: | HJ | 35.0 | C | | a720 | 0.6 | 4 | | | TSU02 |
| 2001 09 16.47 | | C | 12.6 | GA | 60.0 | Y | 6 | a120 | 2.2 | | | | NAK01 |
| 2001 09 18.96 | ! | C | 16.4 | GA | 40 | L | 4 | a240 | > 0.3 | d5 | > 0.6m | 117 | ROD03 |
| 2001 09 22.48 | | C | 14.7 | TJ | 18.0 | L | 6 | a180 | 0.7 | | | | KAD02 |
| 2001 09 22.94 | | C | 16.2 | HS | 20.3 | L | 6 | a060 | 0.3 | 0 | | | MOR09 |
| 2001 09 23.85 | c | 15.4 | UO | 25.4 | T | 5 | a 60 | | | 5 | | | NAV01 |

Comet C/2001 A2 (LINEAR) [cont.]

| DATE (UT) | N | MM | MAG. | RF | AP. | T | F/ | PWR | COMA | DC | TAIL | PA | OBS. |
|---------------|---|----|-------|----|------|---|----|------|------|----|------|----|-------|
| 2001 09 26.81 | | C | 16.4 | UO | 25.4 | T | 5 | a 60 | | 7 | | | NAV01 |
| 2001 09 29.83 | | C | 15.6 | UO | 25.4 | T | 5 | a 60 | | 5 | | | NAV01 |
| 2001 10 04.80 | | C | 16.2 | UO | 25.4 | T | 5 | a 60 | | 5 | | | NAV01 |
| 2001 10 05.81 | | C | 15.6 | UO | 25.4 | T | 5 | a180 | | 5 | | | NAV01 |
| 2001 10 05.91 | | C | 16.3 | UO | 25.4 | T | 5 | a180 | | 5 | | | NAV01 |
| 2001 10 05.91 | | C | 16.3 | UO | 25.4 | T | 5 | a180 | | 5 | | | NAV01 |
| 2001 10 07.81 | | C | 16.1 | UO | 25.4 | T | 5 | a180 | | 5 | | | NAV01 |
| 2001 10 08.83 | | C | 16.1 | UO | 25.4 | T | 5 | a180 | | 5 | | | NAV01 |
| 2001 10 11.48 | x | C | 16.6 | HJ | 35.0 | C | 9 | a840 | 0.4 | 3 | | | TSU02 |
| 2001 10 11.85 | | C | 16.3 | UO | 25.4 | T | 5 | a180 | | 5 | | | NAV01 |
| 2001 10 12.49 | | C | 14.1: | GA | 60.0 | Y | 6 | a120 | 1.3 | | | | NAK01 |
| 2001 10 12.87 | | C | 16.4 | UO | 25.4 | T | 5 | a180 | | 5 | | | NAV01 |
| 2001 10 13.42 | | C | 15.9 | TJ | 18.0 | L | 6 | a180 | 0.4 | | | | KAD02 |
| 2001 10 15.85 | | C | 16.5 | UO | 31.0 | T | 5 | a120 | | 5 | | | MAN05 |
| 2001 10 18.77 | | C | 16.6 | UO | 25.4 | T | 5 | a180 | 0.2 | 5 | | | NAV01 |
| 2001 10 21.84 | | C | 16.6 | UO | 25.4 | T | 5 | a180 | 0.2 | 5 | | | NAV01 |
| 2001 10 23.47 | | C | 15.8 | GA | 60.0 | Y | 6 | a120 | 0.8 | | | | NAK01 |

Comet C/2001 B1 (LINEAR)

| DATE (UT) | N | MM | MAG. | RF | AP. | T | F/ | PWR | COMA | DC | TAIL | PA | OBS. |
|---------------|---|----|------|----|------|---|----|------|------|----|------|----|-------|
| 2001 08 28.78 | | C | 18.3 | GA | 60.0 | Y | 6 | a240 | 0.35 | | | | NAK01 |
| 2001 10 14.67 | | C | 17.8 | GA | 60.0 | Y | 6 | a240 | 0.4 | | | | NAK01 |

Comet C/2001 K3 (Skiff)

| DATE (UT) | N | MM | MAG. | RF | AP. | T | F/ | PWR | COMA | DC | TAIL | PA | OBS. |
|---------------|---|----|-------|----|------|---|----|------|------|----|------|----|-------|
| 2001 07 16.70 | | C | 15.8 | TJ | 18.0 | L | 6 | a180 | 0.55 | | | | KAD02 |
| 2001 07 24.65 | x | C | 15.7 | TT | 35.0 | C | 14 | a720 | 0.3 | 4 | | | TSU02 |
| 2001 08 13.56 | x | C | 15.7 | HJ | 35.0 | C | 14 | a720 | 0.3 | 4 | | | TSU02 |
| 2001 08 14.59 | | C | 16.0 | TJ | 18.0 | L | 6 | a180 | 0.35 | | | | KAD02 |
| 2001 08 27.61 | | C | 16.1 | GA | 60.0 | Y | 6 | a120 | 0.35 | | | | NAK01 |
| 2001 09 16.48 | | C | 16.2: | GA | 60.0 | Y | 6 | a120 | 0.4 | | | | NAK01 |
| 2001 10 12.45 | | C | 16.7: | GA | 60.0 | Y | 6 | a120 | 0.35 | | | | NAK01 |

Comet C/2001 K5 (LINEAR)

| DATE (UT) | N | MM | MAG. | RF | AP. | T | F/ | PWR | COMA | DC | TAIL | PA | OBS. |
|---------------|---|----|------|----|------|---|----|------|------|----|------|-----|-------|
| 2001 08 22.46 | x | C | 16.3 | TJ | 60.0 | Y | 6 | a120 | 0.25 | 8 | | 190 | NAK01 |
| 2001 09 16.43 | x | C | 16.3 | TJ | 60.0 | Y | 6 | a120 | 0.35 | | | | NAK01 |

Comet C/2001 M10 (NEAT)

| DATE (UT) | N | MM | MAG. | RF | AP. | T | F/ | PWR | COMA | DC | TAIL | PA | OBS. |
|---------------|---|----|-------|----|------|---|----|------|------|----|------|----|-------|
| 2001 09 16.49 | | C | 17.6: | GA | 60.0 | Y | 6 | a240 | 0.4 | | | | NAK01 |

Comet P/2001 MD7 (LINEAR)

| DATE (UT) | N | MM | MAG. | RF | AP. | T | F/ | PWR | COMA | DC | TAIL | PA | OBS. |
|---------------|---|----|-------|----|------|---|----|------|------|----|------|----|-------|
| 2001 07 15.05 | d | k | 15.4 | FD | 35 | L | 5 | a660 | 0.25 | | | | HOR02 |
| 2001 08 18.56 | x | C | 15.3 | TT | 35.0 | C | 14 | a720 | 0.3 | 4 | | | TSU02 |
| 2001 08 22.53 | | C | 15.6 | TJ | 18.0 | L | 6 | a180 | 0.25 | | | | KAD02 |
| 2001 09 16.44 | a | C | 14.6: | GA | 60.0 | Y | 6 | a120 | 0.6 | | | | NAK01 |
| 2001 09 22.44 | | C | 14.6 | TJ | 18.0 | L | 6 | a120 | 0.4 | | | | KAD02 |
| 2001 10 12.44 | a | C | 13.5: | GA | 60.0 | Y | 6 | a120 | 1.0 | | 1.5m | 73 | NAK01 |
| 2001 10 13.40 | | C | 13.9 | TJ | 18.0 | L | 6 | a120 | 0.6 | | | | KAD02 |

Comet C/2001 N2 (LINEAR)

| DATE (UT) | N | MM | MAG. | RF | AP. | T | F/ | PWR | COMA | DC | TAIL | PA | OBS. |
|---------------|---|----|------|----|------|---|----|------|------|----|------|----|-------|
| 2001 08 22.62 | | C | 16.9 | TJ | 18.0 | L | 6 | a180 | 0.2 | | | | KAD02 |
| 2001 08 27.70 | | C | 16.8 | GA | 60.0 | Y | 6 | a120 | 0.3 | | | 90 | NAK01 |
| 2001 09 16.59 | | C | 16.7 | GA | 60.0 | Y | 6 | a120 | 0.35 | | | | NAK01 |
| 2001 09 22.50 | | C | 16.6 | TJ | 18.0 | L | 6 | a180 | 0.25 | | | | KAD02 |
| 2001 09 23.89 | | C | 16.3 | UO | 25.4 | T | 5 | a180 | | 7 | | | NAV01 |

Comet C/2001 N2 (LINEAR) [cont.]

| DATE (UT) | N | MM | MAG. | RF | AP. | T | F/ | PWR | COMA | DC | TAIL | PA | OBS. |
|---------------|---|----|--------|----|------|---|----|------|------|----|------|----|-------|
| 2001 10 07.88 | | | C 16.6 | UO | 25.4 | T | 5 | a180 | | 5 | | | NAV01 |
| 2001 10 12.48 | | | C 16.5 | GA | 60.0 | Y | 6 | a120 | 0.3 | | | | NAK01 |
| 2001 10 13.44 | | | C 16.6 | TJ | 18.0 | L | 6 | a180 | 0.25 | | | | KAD02 |
| 2001 10 18.80 | | | C 16.6 | UO | 25.4 | T | 5 | a180 | 0.1 | 5 | | | NAV01 |
| 2001 10 21.82 | | | C 16.5 | UO | 25.4 | T | 5 | a180 | 0.1 | 5 | | | NAV01 |
| 2001 10 23.47 | | | C 16.5 | GA | 60.0 | Y | 6 | a120 | 0.4 | | | | NAK01 |

Comet C/2001 02 (NEAT)

| DATE (UT) | N | MM | MAG. | RF | AP. | T | F/ | PWR | COMA | DC | TAIL | PA | OBS. |
|---------------|---|----|--------|----|------|---|----|------|------|----|------|----|-------|
| 2001 08 27.68 | x | | C 18.0 | HV | 60.0 | Y | 6 | a240 | 0.3 | | | 90 | NAK01 |
| 2001 09 16.57 | a | | C 18.2 | GA | 60.0 | Y | 6 | a240 | 0.3 | | | | NAK01 |

Comet C/2001 Q1 (NEAT)

| DATE (UT) | N | MM | MAG. | RF | AP. | T | F/ | PWR | COMA | DC | TAIL | PA | OBS. |
|---------------|---|----|--------|----|------|---|----|------|------|----|------|----|-------|
| 2001 08 19.90 | | | C 17.8 | UO | 57.0 | P | 5 | a120 | | | | | TIC |
| 2001 08 26.86 | | | C 18.0 | UO | 57.0 | P | 5 | a 90 | | | | | TIC |
| 2001 09 16.53 | | | C 18.4 | GA | 60.0 | Y | 6 | a240 | 0.25 | | | | NAK01 |
| 2001 10 12.51 | a | | C 18.3 | GA | 60.0 | Y | 6 | a240 | 0.3 | | | | NAK01 |

Comet P/2001 Q2 (Petriew)

| DATE (UT) | N | MM | MAG. | RF | AP. | T | F/ | PWR | COMA | DC | TAIL | PA | OBS. |
|---------------|---|----|--------|----|-------|---|----|------|------|----|--------|-----|-------|
| 2001 08 20.72 | | | C 12.4 | TJ | 18.0 | L | 6 | a 60 | 1.2 | | 1.0m | 275 | KAD02 |
| 2001 08 22.79 | | | C 11.8 | TJ | 18.0 | L | 6 | a 40 | 1.4 | | 1.5m | 272 | KAD02 |
| 2001 08 23.11 | | | p 10.3 | HS | 3.9 | A | 3 | | 2 | 3/ | | | HOE |
| 2001 08 24.11 | & | | C 11.7 | HS | 10.5 | R | 5 | a060 | 0.5 | 2 | 0.8m | 273 | MOR09 |
| 2001 08 24.77 | x | | C 12.1 | TT | 35.0 | C | 14 | a480 | 1.5 | 4 | 1.5m | 275 | TSU02 |
| 2001 08 26.10 | d | k | 11.9 | LB | 35 | L | 5 | a360 | 3.0 | | 5.7m | 278 | HOR02 |
| 2001 08 26.13 | & | | C 11.8 | HS | 10.5 | R | 5 | a060 | 0.8 | 1 | 1.3m | 269 | MOR09 |
| 2001 08 27.82 | | | C 10.6 | GA | 60.0 | Y | 6 | a 60 | 3.9 | | > 5.9m | 277 | NAK01 |
| 2001 08 30.10 | d | k | 11.6 | LB | 35 | L | 5 | a600 | 2.5 | | 5.4m | 274 | HOR02 |
| 2001 09 04.80 | | | C 11.8 | TJ | 18.0 | L | 6 | a 40 | 1.5 | | 1.2m | 279 | KAD02 |
| 2001 09 18.82 | x | | C 12.5 | HJ | 35.0 | C | 10 | a480 | 0.7 | 4 | 8.0m | 277 | TSU02 |
| 2001 09 22.80 | ! | k | 11.5 | LA | 103.0 | C | 4 | a 30 | 5 | | > 5.3m | 280 | ORI |
| 2001 09 23.80 | | | C 12.0 | TJ | 18.0 | L | 6 | a 60 | 1.4 | | 4.2m | 278 | KAD02 |
| 2001 09 24.15 | | | c 13.4 | UO | 25.4 | T | 5 | a 10 | | 5 | | | NAV01 |
| 2001 09 28.81 | | | C 12.5 | TJ | 18.0 | L | 6 | a 90 | 1.5 | | 2.4m | 281 | KAD02 |
| 2001 10 02.77 | | | C 13.1 | TJ | 18.0 | L | 6 | a 90 | 1.0 | | 3.3m | 281 | KAD02 |
| 2001 10 12.82 | | | C 13.6 | TJ | 18.0 | L | 6 | a120 | 0.9 | | 4.0m | 283 | KAD02 |
| 2001 10 14.18 | | | C 12.5 | HS | 5.7 | R | 4 | a060 | 0.5 | 1 | | | MOR09 |
| 2001 10 19.81 | | | C 13.9 | TJ | 18.0 | L | 6 | a120 | 0.7 | | 6.5m | 284 | KAD02 |
| 2001 10 26.83 | | | C 14.2 | TJ | 18.0 | L | 6 | a120 | 0.6 | | 2.5m | 287 | KAD02 |

Comet C/2001 Q4 (NEAT)

| DATE (UT) | N | MM | MAG. | RF | AP. | T | F/ | PWR | COMA | DC | TAIL | PA | OBS. |
|---------------|---|----|---------|----|-------|---|----|------|------|----|------|----|-------|
| 2001 08 27.08 | & | | C 17.8 | UO | 57.0 | P | 5 | a 90 | | | | | TIC |
| 2001 09 18.74 | a | | C 18.6 | GA | 60.0 | Y | 6 | a240 | 0.25 | | | | NAK01 |
| 2001 09 21.08 | ! | | C 20.0: | GA | 40 | L | 4 | a240 | | d3 | | | ROD03 |
| 2001 09 22.75 | ! | k | 18.0 | LA | 103.0 | C | 4 | a240 | 0.2 | | | | ORI |
| 2001 09 23.69 | x | | C 17.7 | HJ | 35.0 | C | 10 | A080 | 0.3 | 3 | | | TSU02 |
| 2001 10 12.68 | a | | C 18.2 | GA | 60.0 | Y | 6 | a240 | 0.3 | | | | NAK01 |
| 2001 10 24.62 | a | | C 18.4 | GA | 60.0 | Y | 6 | a240 | 0.3 | | | | NAK01 |

Comet P/2001 Q5 (LINEAR-NEAT)

| DATE (UT) | N | MM | MAG. | RF | AP. | T | F/ | PWR | COMA | DC | TAIL | PA | OBS. |
|---------------|---|----|--------|----|-------|---|----|------|------|----|------|-----|-------|
| 2001 08 31.70 | | | C 16.7 | GA | 60.0 | Y | 6 | a120 | 0.5 | | 1.9m | 248 | NAK01 |
| 2001 09 04.73 | | | C 16.9 | TJ | 18.0 | L | 6 | a180 | 0.3 | | | | KAD02 |
| 2001 09 18.69 | | | C 16.8 | GA | 60.0 | Y | 6 | a240 | 0.5 | | 1.9m | 242 | NAK01 |
| 2001 09 18.70 | | | C 17.0 | TJ | 18.0 | L | 6 | a180 | 0.25 | | | | KAD02 |
| 2001 09 22.56 | | | C 16.7 | TJ | 18.0 | L | 6 | a180 | 0.3 | | | | KAD02 |
| 2001 09 22.76 | ! | k | 16.3 | LA | 103.0 | C | 4 | a240 | 0.45 | | 3.7m | 238 | ORI |

Comet P/2001 Q5 (LINEAR-NEAT) [cont.]

| DATE (UT) | N | MM | MAG. | RF | AP. | T | F/ | PWR | COMA | DC | TAIL | PA | OBS. |
|---------------|---|----|------|----|------|---|----|------|------|----|------|-----|-------|
| 2001 09 23.98 | | C | 16.7 | UO | 25.4 | T | 5 | a180 | | 7 | | | NAV01 |
| 2001 09 28.72 | | C | 16.8 | GA | 60.0 | Y | 6 | a240 | 0.6 | | 2.2m | 237 | NAK01 |
| 2001 10 12.74 | | C | 16.8 | TJ | 18.0 | L | 6 | a180 | 0.35 | | | | KAD02 |
| 2001 10 13.52 | x | C | 16.1 | HJ | 35.0 | C | 9 | a120 | 0.3 | 3 | | | TSU02 |
| 2001 10 13.66 | | C | 16.6 | GA | 60.0 | Y | 6 | a240 | 0.55 | | 2.7m | 233 | NAK01 |
| 2001 10 18.90 | | C | 16.7 | UO | 25.4 | T | 5 | a180 | 0.1 | 3 | | | NAV01 |
| 2001 10 21.88 | | C | 16.7 | UO | 25.4 | T | 5 | a180 | 0.3 | 5 | | | NAV01 |

Comet P/2001 Q6 (NEAT)

| DATE (UT) | N | MM | MAG. | RF | AP. | T | F/ | PWR | COMA | DC | TAIL | PA | OBS. |
|---------------|---|----|------|----|------|---|----|------|------|----|------|-----|-------|
| 2001 09 18.71 | | C | 15.8 | TJ | 18.0 | L | 6 | a 90 | 0.3 | | | | KAD02 |
| 2001 09 18.72 | | C | 15.3 | GA | 60.0 | Y | 6 | a120 | 1.2 | | | | NAK01 |
| 2001 09 22.66 | | C | 15.6 | TJ | 18.0 | L | 6 | a 90 | 0.6 | | | | KAD02 |
| 2001 09 23.74 | | C | 15.6 | TJ | 18.0 | L | 6 | a 90 | 0.55 | | | | KAD02 |
| 2001 09 24.00 | | C | 16.0 | UO | 25.4 | T | 5 | a 60 | | 6 | | | NAV01 |
| 2001 09 24.71 | | C | 15.4 | TJ | 18.0 | L | 6 | a 90 | 0.65 | | | | KAD02 |
| 2001 09 28.68 | | C | 14.6 | TJ | 18.0 | L | 6 | a 90 | 0.75 | | | | KAD02 |
| 2001 09 28.75 | | C | 13.6 | GA | 60.0 | Y | 6 | a120 | 1.9 | | | | NAK01 |
| 2001 10 12.70 | | C | 12.9 | GA | 60.0 | Y | 6 | a120 | 2.0 | | | 225 | NAK01 |
| 2001 10 12.75 | | C | 14.2 | TJ | 18.0 | L | 6 | a 60 | 1.0 | | 0.7m | 216 | KAD02 |
| 2001 10 13.50 | | C | 14.0 | TJ | 18.0 | L | 6 | a 90 | 0.8 | | 0.6m | 210 | KAD02 |
| 2001 10 13.55 | x | C | 14.4 | HJ | 35.0 | C | 9 | a060 | 0.5 | 5 | 1.0m | 210 | TSU02 |
| 2001 10 14.89 | | c | 15.6 | HS | 20 | T | 10 | a 60 | | 5 | | | ROD01 |
| 2001 10 19.75 | | C | 13.4 | TJ | 18.0 | L | 6 | a 90 | 1.2 | | | | KAD02 |
| 2001 10 23.65 | | C | 13.1 | TJ | 18.0 | L | 6 | a 90 | 1.4 | | 1.0m | 179 | KAD02 |
| 2001 10 26.71 | | C | 13.3 | TJ | 18.0 | L | 6 | a120 | 1.3 | | | | KAD02 |

Comet P/2001 R1 (LONEOS)

| DATE (UT) | N | MM | MAG. | RF | AP. | T | F/ | PWR | COMA | DC | TAIL | PA | OBS. |
|---------------|---|-----|------|----|------|---|----|------|------|----|------|----|-------|
| 2001 09 16.54 | | a C | 18.2 | GA | 60.0 | Y | 6 | a240 | 0.25 | | | 50 | NAK01 |

Comet P/2001 R6 (LINEAR-Skiff)

| DATE (UT) | N | MM | MAG. | RF | AP. | T | F/ | PWR | COMA | DC | TAIL | PA | OBS. |
|---------------|---|-----|------|----|------|---|----|------|------|----|------|----|-------|
| 2001 10 13.62 | | a C | 17.4 | GA | 60.0 | Y | 6 | a240 | 0.35 | | | | NAK01 |
| 2001 10 24.57 | | C | 17.3 | GA | 60.0 | Y | 6 | a240 | 0.35 | | | | NAK01 |

Comet C/2001 S1 (Skiff)

| DATE (UT) | N | MM | MAG. | RF | AP. | T | F/ | PWR | COMA | DC | TAIL | PA | OBS. |
|---------------|---|-----|------|----|------|---|----|------|------|----|------|----|-------|
| 2001 10 12.66 | | x C | 19.0 | TJ | 60.0 | Y | 6 | a240 | 0.2 | | | | NAK01 |
| 2001 10 24.61 | | x C | 19.3 | HV | 60.0 | Y | 6 | a240 | 0.2 | | | | NAK01 |

Comet P/2001 T3 (NEAT)

| DATE (UT) | N | MM | MAG. | RF | AP. | T | F/ | PWR | COMA | DC | TAIL | PA | OBS. |
|---------------|---|-----|------|----|------|---|----|------|------|----|------|----|-------|
| 2001 10 18.58 | | a C | 17.6 | GA | 60.0 | Y | 6 | a240 | 0.45 | | | | NAK01 |
| 2001 10 24.66 | | C | 17.5 | GA | 60.0 | Y | 6 | a240 | 0.3 | | | | NAK01 |

◇ ◇ ◇

Visual Data

Comet 2P/Encke

| DATE (UT) | N | MM | MAG. | RF | AP. | T | F/ | PWR | COMA | DC | TAIL | PA | OBS. |
|---------------|---|-----|------|----|------|---|----|-----|-------|----|------|----|-------|
| 2000 07 31.10 | | x M | 12.0 | HS | 33 | L | 4 | 115 | | 2 | | | REN |
| 2000 08 01.10 | | x M | 12.0 | HS | 33 | L | 4 | 115 | & 1.5 | 2/ | | | REN |
| 2000 08 08.36 | | S | 11.0 | AC | 44.5 | L | 4 | 167 | 1.1 | 1 | | | MOR03 |

Comet 2P/Encke [cont.]

| DATE (UT) | N | MM | MAG. | RF | AP. | T | F/ | PWR | COMA | DC | TAIL | PA | OBS. |
|---------------|---|----|-------|----|------|---|----|-----|------|----|------|----|-------|
| 2000 08 11.13 | x | M | 10.6: | HS | 40 | L | 4 | 94 | 1 | 3 | | | REN |
| 2000 08 13.36 | s | S | 10.6 | AC | 44.5 | L | 4 | 167 | 1.2 | 2 | | | MOR03 |
| 2000 08 20.37 | s | S | 10.3 | AC | 44.5 | L | 4 | 80 | 1.3 | 2 | | | MOR03 |
| 2000 08 25.17 | | | [6 : | | 12 | L | 6 | 38 | | | | | REN |
| 2000 08 25.38 | s | S | 8.8 | AC | 15 | R | 5 | 42 | 2 | | | | MOR03 |

Comet 16P/Brooks

| DATE (UT) | N | MM | MAG. | RF | AP. | T | F/ | PWR | COMA | DC | TAIL | PA | OBS. |
|---------------|---|----|-------|----|------|---|----|-----|-------|----|------|----|-------|
| 2001 09 22.05 | | S | [14.5 | HS | 44.5 | T | 4 | 224 | ! 0.5 | | | | SAR02 |

Comet 19P/Borrelly

| DATE (UT) | N | MM | MAG. | RF | AP. | T | F/ | PWR | COMA | DC | TAIL | PA | OBS. |
|---------------|----|----|-------|----|------|---|----|-----|------|----|------|-------|-------|
| 2001 07 31.78 | xs | S | 11.0 | HS | 25.4 | L | 4 | 113 | 1.2 | 3 | 2 | m 230 | YOS02 |
| 2001 08 11.11 | | S | 11.3 | TK | 25.6 | L | 5 | 84 | 1.2 | 4 | | | BIV |
| 2001 08 12.12 | | S | 11.1 | TK | 25.6 | L | 5 | 84 | 1.5 | 4 | | | BIV |
| 2001 08 14.79 | | S | 10.4 | AA | 10.0 | B | | 25 | | | | | SEA |
| 2001 08 15.78 | x | S | 11.0: | HS | 32.0 | L | 5 | 58 | 2 | 3 | | | NAG08 |
| 2001 08 16.09 | | M | 9.1 | TT | 10 | B | 4 | 25 | 3 | 3 | | | LEH |
| 2001 08 17.07 | | M | 8.8 | TT | 10 | B | 4 | 25 | 4 | 3 | | | LEH |
| 2001 08 17.11 | | S | 10.5 | TT | 20 | T | 10 | 75 | 2.0 | 3 | | | SHA02 |
| 2001 08 17.77 | x | S | 10.5 | TJ | 32.0 | L | 5 | 58 | 1.5 | 5 | | | NAG08 |
| 2001 08 18.12 | | S | 10.7 | TK | 25.6 | L | 5 | 84 | 1.3 | 6 | | | BIV |
| 2001 08 18.13 | | S | 10.7 | TK | 25.6 | L | 5 | 42 | 1.2 | 6 | | | BIV |
| 2001 08 21.79 | xs | S | 10.6 | TT | 25.4 | L | 4 | 46 | 1.6 | 4 | | | YOS02 |
| 2001 08 22.74 | xs | S | 9.9 | TJ | 32.0 | L | 5 | 58 | 1.9 | 5 | | | NAG08 |
| 2001 08 23.77 | x | M | 10.4 | TT | 25.0 | L | 6 | 47 | 3.0 | 3 | | | TSU02 |
| 2001 08 23.82 | | B | 10.8 | TJ | 20 | L | 7 | 45 | 1.5 | 6 | | | MAT08 |
| 2001 08 24.11 | | M | 8.3 | TT | 10 | B | 4 | 25 | 4 | 3 | | | LEH |
| 2001 08 25.07 | | M | 8.3 | TT | 10 | B | 4 | 25 | 4.5 | 3 | | | LEH |
| 2001 08 25.07 | | S | 10.1 | TT | 10.0 | B | | 25 | 1.5 | 4 | | | HAS02 |
| 2001 08 26.02 | | M | 10.7 | GA | 25 | L | 4 | 54 | 1.8 | 4 | | | SHU |
| 2001 08 26.08 | | M | 9.1 | TT | 8.0 | B | | 10 | 5 | 3 | | | HOR02 |
| 2001 08 26.10 | | M | 8.6 | TT | 10 | B | 4 | 25 | 3.5 | 3 | | | LEH |
| 2001 08 26.13 | | S | 10.4 | TK | 20.3 | L | 6 | 95 | 1.5 | 5 | | | BIV |
| 2001 08 26.99 | a | M | 10.8 | PA | 30 | L | 5 | 60 | 1.5 | 3 | | | NEV |
| 2001 08 27.07 | | S | 10.6 | HS | 34.0 | L | 6 | 83 | 2 | 3 | | | TOT03 |
| 2001 08 27.08 | | M | 8.6 | TT | 10 | B | 4 | 25 | 3 | 3 | | | LEH |
| 2001 08 27.08 | | M | 9.1 | TT | 35 | L | 5 | 68 | 4.2 | 1/ | | | HOR02 |
| 2001 08 28.06 | | M | 9.4 | TT | 8.0 | B | | 10 | 5 | 3 | | | HOR02 |
| 2001 08 28.08 | | S | 9.5 | TJ | 41 | L | 5 | 121 | 2.5 | 3/ | | | RES |
| 2001 08 28.11 | | S | 10.3 | TJ | 20 | T | 10 | 75 | 1.7 | 4 | | | SHA02 |
| 2001 08 28.13 | | S | 10.9 | TK | 20.3 | L | 6 | 48 | 1.3 | 6 | | | BIV |
| 2001 08 28.78 | x | S | 10.5 | TT | 25.4 | L | 4 | 46 | 2.4 | 5 | | | YOS02 |
| 2001 08 28.79 | x | S | 10.3 | TJ | 15.0 | B | | 25 | 2.0 | 2/ | | | HAS08 |
| 2001 08 29.10 | | S | 10.3 | TJ | 25.4 | L | 5 | 65 | 2.2 | 4 | | | MEY |
| 2001 08 29.11 | | S | 10.1 | TJ | 31.0 | J | 6 | 72 | 2.0 | 4/ | | | DIJ |
| 2001 08 29.11 | | S | 10.3 | TJ | 31.0 | J | 6 | 72 | 2.7 | 4 | | | BOU |
| 2001 08 29.12 | | S | 10.5 | TK | 20.3 | L | 6 | 48 | 1.5 | 6 | | | BIV |
| 2001 08 29.14 | | S | 10.2 | TJ | 20 | T | 10 | 75 | 1.4 | 5 | | | SHA02 |
| 2001 08 30.04 | | M | 8.8 | TT | 10 | B | 4 | 25 | 3.7 | 3 | | | LEH |
| 2001 08 30.07 | | M | 9.6 | TT | 13 | L | 8 | 69 | 3.5 | 2/ | | | HOR02 |
| 2001 08 30.08 | | S | 9.8 | AC | 6.3 | R | 13 | 52 | 5 | 1 | | | KOS |
| 2001 08 30.10 | | S | 9.8 | AC | 41 | L | 5 | 121 | 3 | 3 | | | RES |
| 2001 08 31.07 | | S | 9.6 | AC | 41 | L | 5 | 121 | 3 | 3 | | | RES |
| 2001 08 31.08 | | M | 8.8 | TT | 10 | B | 4 | 25 | 4 | 3 | | | LEH |
| 2001 09 01.11 | | S | 10.0 | TJ | 25.4 | J | 6 | 58 | 3.0 | 4 | | | BOU |
| 2001 09 01.14 | | S | 10.8 | TK | 25.6 | L | 5 | 42 | 1.5 | 5 | 0.03 | 275 | BIV |
| 2001 09 12.76 | | S | 9.2: | TJ | 25.4 | T | 6 | 116 | 2.3 | 3 | | | YOS04 |
| 2001 09 14.06 | | S | 9.6 | HS | 36 | L | 6 | 70 | 2.6 | 3 | | | BAR06 |
| 2001 09 15.03 | | S | 9.6 | HS | 11 | L | 7 | 50 | 2.5 | 3 | | | BAR06 |
| 2001 09 15.10 | | S | 10.5 | TK | 25.6 | L | 5 | 42 | 2.0 | 6 | | | BIV |
| 2001 09 16.04 | | S | 9.9 | HS | 36 | L | 6 | 70 | 2.5 | 4 | | | BAR06 |
| 2001 09 16.16 | | S | 10.5 | TK | 25.6 | L | 5 | 42 | 1.5 | 6 | | | BIV |

Comet 19P/Borrelly [cont.]

| DATE (UT) | N | MM | MAG. | RF | AP. | T | F/ | PWR | COMA | DC | TAIL | PA | OBS. |
|---------------|----|----|-------|----|------|---|----|-----|-------|-----|------|-------|-------|
| 2001 09 16.79 | x | S | 10.2 | TJ | 15.0 | B | | 25 | 2.0 | 2 | | | HAS08 |
| 2001 09 17.78 | x | S | 9.9 | TT | 10.0 | B | | 20 | 3 | 4 | | | YOS02 |
| 2001 09 17.79 | x | S | 9.8 | TJ | 32.0 | L | 5 | 58 | 1.4 | 5 | | | NAG08 |
| 2001 09 19.11 | | S | 9.3 | TT | 8.0 | B | | 10 | 6 | 3 | | | HOR02 |
| 2001 09 19.14 | | S | 9.9 | TT | 10.0 | B | | 25 | 4.2 | 4 | | | HAS02 |
| 2001 09 20.05 | | M | 10.5 | PA | 30 | L | 5 | 60 | 2 | 4 | | | NEV |
| 2001 09 20.07 | | M | 8.8 | TT | 10 | B | 4 | 25 | 4.5 | 3 | | | LEH |
| 2001 09 22.06 | | S | 9.5 | HS | 36 | L | 6 | 70 | 2.5 | 3 | | | BAR06 |
| 2001 09 22.06 | | S | 10.1 | HS | 44.5 | T | 4 | 81 | 1.8 | s4 | | | SAR02 |
| 2001 09 22.17 | | S | 10.7 | TK | 20.3 | L | 6 | 48 | 1.5 | 5 | | | BIV |
| 2001 09 22.73 | | S | 10.0 | TJ | 25.4 | T | 6 | 62 | 3.2 | 3/ | | | YOS04 |
| 2001 09 22.74 | | M | 10.0 | HV | 25.0 | L | 6 | 47 | | | | | TSU02 |
| 2001 09 22.74 | x | S | 10.6 | HS | 31.7 | L | 6 | 63 | 1.6 | 5/ | | | MIY01 |
| 2001 09 22.79 | x | S | 10.0 | TJ | 32.0 | L | 5 | 58 | 1.9 | 5/ | | | NAG08 |
| 2001 09 22.80 | x | S | 10.4 | TJ | 15.0 | B | | 25 | 2.1 | 3 | | | HAS08 |
| 2001 09 23.16 | | S | 10.5 | TK | 20.3 | L | 6 | 48 | 1.5 | 6 | | | BIV |
| 2001 09 24.76 | x | S | 10.3 | TJ | 31.7 | L | 6 | 63 | 1.5 | 5 | | | MIY01 |
| 2001 09 27.06 | | M | 10.6 | PA | 30 | L | 5 | 60 | 2 | 4 | | | NEV |
| 2001 09 27.09 | | M | 10.0 | GA | 25 | L | 4 | 53 | 1.7 | 4 | | | SHU |
| 2001 09 27.79 | | S | 10.3 | TJ | 20 | L | 7 | 45 | 2.0 | 5 | | | MAT08 |
| 2001 09 28.14 | | S | 9.9 | TT | 10.0 | B | | 25 | 3.9 | 4 | | | HAS02 |
| 2001 09 28.75 | | S | 9.7 | TJ | 25.4 | T | 6 | 62 | 2.8 | 5 | | | YOS04 |
| 2001 09 29.05 | | M | 10.7 | PA | 30 | L | 5 | 60 | 2 | 4 | | | NEV |
| 2001 09 29.14 | | S | 9.9 | TJ | 25.4 | J | 6 | 58 | 2.5 | 4/ | | | BOU |
| 2001 09 30.15 | | S | 10.7 | TK | 25.6 | L | 5 | 42 | 2.0 | 6 | | | BIV |
| 2001 10 11.08 | | S | 10.1 | TJ | 20.3 | T | 10 | 100 | 2.1 | 3/ | | | GRA04 |
| 2001 10 12.17 | | S | 10.4 | TK | 20.3 | L | 6 | 48 | 1.5 | 5 | | | BIV |
| 2001 10 13.76 | x | S | 10.6 | TT | 25.4 | L | 4 | 46 | 2.3 | 4 | | | YOS02 |
| 2001 10 13.79 | x | S | 10.5 | HS | 31.7 | L | 6 | 63 | 1.2 | 4 | | | MIY01 |
| 2001 10 14.77 | x | S | 10.5 | TT | 25.4 | L | 4 | 46 | 2.3 | 4 | | | YOS02 |
| 2001 10 16.15 | | S | 10.7 | TK | 20.3 | L | 6 | 48 | 1.5 | 5 | | | BIV |
| 2001 10 16.20 | | S | 10.9 | TK | 20.3 | L | 6 | 48 | 1.6 | 5 | | | BIV |
| 2001 10 17.05 | | M | 10.6 | AS | 30 | L | 5 | 60 | 2.5 | 4 | | | NEV |
| 2001 10 18.68 | xw | S | 10.3 | TJ | 32.0 | L | 5 | 58 | 2.5 | 4/ | | | NAG08 |
| 2001 10 19.74 | | S | 10.7 | TJ | 25.4 | T | 6 | 62 | 2.7 | 5 | | | YOS04 |
| 2001 10 19.76 | | M | 9.9 | TT | 25.0 | L | 6 | 47 | 1.5 | 4 | | | TSU02 |
| 2001 10 20.02 | | S | 9.8 | AC | 41 | L | 5 | 121 | & 2.5 | 3 | | | RES |
| 2001 10 22.07 | | M | 10.8 | PA | 30 | L | 5 | 60 | 1.7 | 4 | | | NEV |
| 2001 10 23.06 | | S | 10.6 | TJ | 20.3 | T | 10 | 100 | 1.9 | 3 | | | GRA04 |
| 2001 10 23.15 | | S | 10.5 | TI | 44.5 | T | 4 | 82 | 2.8 | s5/ | 7 | m 300 | SAR02 |
| 2001 10 24.10 | | M | 10.6 | GA | 25 | L | 4 | 53 | 2.5 | 3/ | | | SHU |
| 2001 10 24.15 | | S | 11.2 | TK | 20.3 | L | 6 | 48 | 1.2 | 4 | | | BIV |
| 2001 10 24.72 | xa | S | 10.3 | TJ | 32.0 | L | 5 | 58 | 2.8 | 5 | | | NAG08 |
| 2001 10 24.96 | | M | 10.7 | PA | 30 | L | 5 | 60 | 2 | 3 | | | NEV |
| 2001 10 25.09 | | M | 11.0: | GA | 25 | L | 4 | 53 | 1 | 3 | | | SHU |
| 2001 10 25.81 | x | B | 10.7 | TJ | 25.0 | L | 6 | 69 | 1.0 | 4 | | | WAT01 |
| 2001 10 26.16 | | S | 11.0 | TK | 20.3 | L | 6 | 48 | 1.4 | 4 | | | BIV |
| 2001 10 26.81 | x | B | 11.5 | HS | 25.0 | L | 6 | 69 | 3.0 | 2 | | | WAT01 |
| 2001 10 28.07 | | S | 10.9: | HS | 36 | L | 6 | 70 | 1.8 | 3 | | | BAR06 |
| 2001 10 28.16 | | S | 10.7 | TK | 25.6 | L | 5 | 42 | 1.8 | 5 | | | BIV |
| 2001 10 29.84 | x | S | 11.5 | HS | 25.4 | L | 4 | 46 | 1.7 | 5 | 3 | m 280 | YOS02 |

Comet 24P/Schaumasse

| DATE (UT) | N | MM | MAG. | RF | AP. | T | F/ | PWR | COMA | DC | TAIL | PA | OBS. |
|---------------|---|----|-------|----|------|---|----|-----|------|----|------|----|-------|
| 2001 02 27.81 | | S | [12.0 | HS | 27.0 | L | 6 | 83 | | | | | TOT03 |
| 2001 03 23.04 | | S | 12.8 | AC | 44.5 | L | 4 | 167 | 0.8 | 1 | | | MOR03 |
| 2001 04 11.06 | | S | 12.2 | AC | 44.5 | L | 4 | 167 | 1.0 | 2 | | | MOR03 |
| 2001 04 14.11 | | S | 12.2 | AC | 44.5 | L | 4 | 167 | 1.2 | 2 | | | MOR03 |
| 2001 04 25.07 | | S | 12.2 | AC | 44.5 | L | 4 | 167 | 0.8 | 2 | | | MOR03 |
| 2001 05 10.85 | | S | 10.8 | HS | 27.0 | L | 6 | 120 | 1.7 | 1 | | | TOT03 |
| 2001 05 13.09 | | S | 12.3 | AC | 44.5 | L | 4 | 167 | 0.8 | 2 | | | MOR03 |
| 2001 05 16.11 | | S | 12.4 | AC | 44.5 | L | 4 | 167 | 0.7 | 1 | | | MOR03 |
| 2001 05 24.86 | | S | 10.8 | HS | 27.0 | L | 6 | 120 | 2.5 | 1 | | | TOT03 |

Comet 29P/Schwassmann-Wachmann

| DATE (UT) | N | MM | MAG. | RF | AP. | T | F/ | PWR | COMA | DC | TAIL | PA | OBS. |
|---------------|---|--------|-------|----|------|---|----|-----|------|----|------|----|-------|
| 2001 08 17.92 | | S | 11.2 | NP | 44.5 | L | 5 | 167 | 1.5 | 1/ | | | MAR02 |
| 2001 08 17.92 | | S | 11.7 | NP | 44.5 | L | 5 | 167 | 1.5 | 3 | | | SAR04 |
| 2001 08 18.91 | | S | 11.0 | NP | 10 | R | 5 | 77 | 3 | 1 | | | MAR02 |
| 2001 08 19.89 | | S | 11.0 | NP | 10 | R | 5 | 77 | 2 | 1/ | | | MAR02 |
| 2001 08 20.88 | | S | 11.2 | NP | 10 | R | 5 | 98 | 1.5 | 1 | | | MAR02 |
| 2001 08 21.88 | | S | 11.4 | NP | 10 | R | 5 | 77 | 1 | 1 | | | MAR02 |
| 2001 08 23.60 | | S | 12.5: | HS | 20 | L | 7 | 45 | 1.5 | 3 | | | MAT08 |
| 2001 08 25.94 | | S | 11.6 | TT | 25.4 | T | 10 | 102 | 2 | 2 | | | DES01 |
| 2001 09 09.54 | | [13.0 | | HS | 20 | L | 7 | 45 | | | | | MAT08 |
| 2001 09 15.88 | | S[14.2 | | NP | 44.5 | L | 5 | 167 | ! 1 | | | | MAR02 |
| 2001 10 08.53 | | [13.6 | | HS | 28 | L | 10 | 88 | | | | | MAT08 |
| 2001 10 14.46 | | [13.5 | | HS | 28 | L | 10 | 88 | | | | | MAT08 |

Comet 41P/Tuttle-Giacobini-Kresák

| DATE (UT) | N | MM | MAG. | RF | AP. | T | F/ | PWR | COMA | DC | TAIL | PA | OBS. |
|---------------|---|----|-------|----|------|---|----|-----|------|----|------|-----|-------|
| 2000 12 08.23 | x | S | 12.0: | HS | 12 | L | 6 | 70 | & 1 | 4 | | | REN |
| 2000 12 09.22 | x | M | 12.2 | HS | 40 | L | 4 | 94 | 2 | 3/ | | | REN |
| 2000 12 09.45 | | S | 11.8 | AC | 44.5 | L | 4 | 80 | 1.6 | 2 | | | MOR03 |
| 2000 12 22.22 | x | M | 10 : | TT | 40 | L | 4 | 94 | 2 | 6 | 0.17 | 290 | REN |
| 2000 12 23.22 | x | M | 10.1 | TT | 12 | L | 6 | 38 | 2 | 5 | 0.07 | 290 | REN |
| 2000 12 23.47 | | S | 9.1 | AC | 15 | R | 5 | 42 | 3.5 | 2 | | | MOR03 |
| 2000 12 25.47 | | S | 9.3 | AC | 15 | R | 5 | 42 | 4 | 2 | | | MOR03 |
| 2000 12 29.46 | | S | 9.4 | AC | 15 | R | 5 | 42 | 3 | 2 | | | MOR03 |
| 2001 01 03.24 | x | M | 10.2 | TT | 12 | L | 6 | 70 | 1.5 | 2/ | | | REN |

Comet 45P/Honda-Mrkos-Pajdušáková

| DATE (UT) | N | MM | MAG. | RF | AP. | T | F/ | PWR | COMA | DC | TAIL | PA | OBS. |
|---------------|---|--------|------|----|------|---|----|-----|-------|----|------|----|-------|
| 2001 04 14.06 | w | S | 9.4 | AC | 44.5 | L | 4 | 80 | 1.6 | 4 | | | MOR03 |
| 2001 04 20.07 | | S | 9.3 | AC | 15 | R | 5 | 42 | 2 | 4 | | | MOR03 |
| 2001 04 25.07 | | S | 10.3 | AC | 44.5 | L | 4 | 80 | 1.8 | 2 | | | MOR03 |
| 2001 04 26.80 | | S | 11.3 | HS | 24.5 | L | 4 | 38 | 4 | 2 | | | CSU01 |
| 2001 04 28.81 | | S | 10.2 | HS | 27.0 | L | 6 | 167 | 1.0 | | | | TOT03 |
| 2001 04 29.82 | | S | 10.0 | HS | 27.0 | L | 6 | 167 | 1.3 | 2/ | | | TOT03 |
| 2001 05 10.83 | | S[12 | | HS | 27.0 | L | 6 | 167 | ! 1.0 | | | | TOT03 |
| 2001 05 24.85 | | S[11.7 | | HS | 27.0 | L | 6 | 167 | ! 1.0 | | | | TOT03 |

Comet 47P/Ashbrook-Jackson

| DATE (UT) | N | MM | MAG. | RF | AP. | T | F/ | PWR | COMA | DC | TAIL | PA | OBS. |
|---------------|---|--------|------|----|------|---|----|-----|-------|----|------|----|-------|
| 2001 09 22.05 | | S[14.0 | | HS | 44.5 | T | 4 | 146 | ! 1.0 | | | | SAR02 |

Comet 51P/Harrington

| DATE (UT) | N | MM | MAG. | RF | AP. | T | F/ | PWR | COMA | DC | TAIL | PA | OBS. |
|---------------|---|--------|------|----|------|---|----|-----|-------|----|------|----|-------|
| 2001 10 22.13 | | S[14.0 | | HS | 44.5 | T | 4 | 224 | ! 0.5 | | | | SAR02 |
| 2001 10 23.12 | | S[13.5 | | HS | 44.5 | T | 4 | 224 | ! 1.0 | | | | SAR02 |

Comet 74P/Smirnova-Chernykh

| DATE (UT) | N | MM | MAG. | RF | AP. | T | F/ | PWR | COMA | DC | TAIL | PA | OBS. |
|---------------|---|--------|------|----|------|---|----|-----|-------|----|------|----|-------|
| 2001 03 27.91 | x | S | 15 : | HS | 40 | L | 4 | 250 | 0.2 | 7 | | | REN |
| 2001 04 13.90 | x | S | 15.2 | HS | 40 | L | 4 | 250 | 0.2 | 6 | | | REN |
| 2001 04 19.97 | x | S | 15.3 | HS | 40 | L | 4 | 250 | | 6 | | | REN |
| 2001 04 25.94 | x | S | 15.2 | HS | 40 | L | 4 | 250 | 0.3 | 6 | | | REN |
| 2001 05 24.90 | | S[13.0 | | HS | 27.0 | L | 6 | 167 | ! 1.0 | | | | TOT03 |
| 2001 06 10.78 | | S | 14.4 | HS | 40.6 | L | 4 | 147 | 0.7 | 3 | | | BOU |
| 2001 06 11.77 | | S | 14.6 | HS | 40.6 | L | 4 | 147 | 0.6 | 3 | | | BOU |
| 2001 06 12.73 | | S | 14.7 | HS | 40.6 | L | 4 | 183 | 0.6 | 2 | | | BOU |
| 2001 06 14.78 | | S | 14.7 | HS | 40.6 | L | 4 | 147 | 0.7 | 3/ | | | BOU |

Comet 110P/Hartley

| DATE (UT) | N MM | MAG. | RF | AP. | T F/ | PWR | COMA | DC | TAIL | PA | OBS. |
|---------------|------|------|------|-----|------|-----|--------|----|------|----|------|
| 2000 11 24.11 | x S | 14.7 | HS | 40 | L 4 | 250 | 0.2 | 6/ | | | REN |
| 2000 11 30.05 | x S | 14.8 | HS | 40 | L 4 | 250 | 0.3 | 6 | | | REN |
| 2000 12 16.86 | x S | 14 | : HS | 40 | L 4 | 250 | & 0.4 | 3/ | | | REN |
| 2001 01 25.82 | x S | 15 | : HS | 40 | L 4 | 300 | & 0.25 | 5 | | | REN |
| 2001 02 13.80 | x S | 15 | : HS | 40 | L 4 | 300 | 0.2 | 5 | | | REN |
| 2001 02 14.87 | x S | 15.2 | HS | 40 | L 4 | 300 | 0.2 | 5/ | | | REN |

Comet 141P/Machholz

| DATE (UT) | N MM | MAG. | RF | AP. | T F/ | PWR | COMA | DC | TAIL | PA | OBS. |
|---------------|------|------|----|------|------|-----|------|----|------|----|-------|
| 1999 12 08.98 | S | 11.4 | AC | 44.5 | L 4 | 80 | 1.5 | 1 | | | MORO3 |
| 1999 12 11.97 | S | 11.7 | AC | 44.5 | L 4 | 80 | 1.9 | 1 | | | MORO3 |

Comet C/1998 T1 (LINEAR)

| DATE (UT) | N MM | MAG. | RF | AP. | T F/ | PWR | COMA | DC | TAIL | PA | OBS. |
|---------------|------|------|----|-----|------|-----|------|----|------|----|------|
| 1999 05 21.29 | S | 11.9 | HS | 31 | T 10 | 78 | 1.6 | 3 | | | DEA |
| 1999 07 04.00 | S | 8.6 | S | 7.0 | B | 10 | 9.0 | 3 | | | DEA |
| 1999 07 04.97 | S | 8.7 | S | 7.0 | B | 10 | 10.5 | 4 | | | DEA |

Comet C/1999 F1 (Catalina)

| DATE (UT) | N MM | MAG. | RF | AP. | T F/ | PWR | COMA | DC | TAIL | PA | OBS. |
|---------------|------|------|----|------|------|-----|------|----|------|----|------|
| 2001 06 11.73 | S | 15.5 | HS | 40.6 | L 4 | 183 | 0.4 | 4 | | | BOU |
| 2001 06 12.72 | S | 15.5 | HS | 40.6 | L 4 | 247 | 0.45 | 5 | | | BOU |

Comet C/1999 J2 (Skiff)

| DATE (UT) | N MM | MAG. | RF | AP. | T F/ | PWR | COMA | DC | TAIL | PA | OBS. |
|---------------|------|------|----|------|------|-----|------|----|------|----|------|
| 2001 06 10.79 | S | 15.1 | HS | 40.6 | L 4 | 183 | 0.5 | 3/ | | | BOU |
| 2001 06 11.79 | S | 15.1 | HS | 40.6 | L 4 | 183 | 0.4 | 4 | | | BOU |
| 2001 06 12.80 | S | 15.2 | HS | 40.6 | L 4 | 183 | 0.4 | 4 | | | BOU |
| 2001 06 13.78 | S | 15.2 | HS | 40.6 | L 4 | 183 | 0.4 | 3/ | | | BOU |
| 2001 06 14.80 | S | 15.2 | HS | 40.6 | L 4 | 183 | 0.4 | 3/ | | | BOU |

Comet C/1999 K8 (LINEAR)

| DATE (UT) | N MM | MAG. | RF | AP. | T F/ | PWR | COMA | DC | TAIL | PA | OBS. |
|---------------|------|-------|----|------|------|-----|------|----|------|----|-------|
| 2000 11 30.78 | S | [14.5 | HS | 44.0 | L 5 | 156 | | | | | HAS02 |

Comet C/1999 L3 (LINEAR)

| DATE (UT) | N MM | MAG. | RF | AP. | T F/ | PWR | COMA | DC | TAIL | PA | OBS. |
|---------------|------|------|----|------|------|-----|------|----|------|----|-------|
| 1999 12 18.45 | S | 13.6 | AC | 44.5 | L 4 | 167 | 0.8 | 3 | | | MORO3 |
| 2000 01 17.37 | S | 13.0 | AC | 44.5 | L 4 | 167 | 0.8 | 3 | | | MORO3 |
| 2000 01 21.20 | S | 13.0 | AC | 44.5 | L 4 | 167 | 0.7 | 3 | | | MORO3 |
| 2000 01 25.92 | x M | 12.5 | HS | 40 | L 4 | 94 | 2 | 5 | | | REN |
| 2000 01 28.22 | S | 12.2 | AC | 44.5 | L 4 | 167 | 1.2 | 4 | | | MORO3 |
| 2000 02 09.93 | M | 12.9 | EA | 40 | L 4 | 94 | 1.33 | 5/ | | | REN |
| 2000 02 26.83 | x M | 13.5 | HS | 40 | L 4 | 94 | 1.5 | 2 | | | REN |

Comet C/1999 N2 (Lynn)

| DATE (UT) | N MM | MAG. | RF | AP. | T F/ | PWR | COMA | DC | TAIL | PA | OBS. |
|---------------|------|------|----|-----|------|-----|------|----|------|----|------|
| 1999 07 13.95 | S | 7.0 | S | 7.0 | B | 10 | | | | | DEA |
| 1999 07 14.93 | S | 6.7 | AA | 7.0 | B | 10 | 3.2 | 4 | | | DEA |
| 1999 07 17.93 | B | 7.0 | S | 7.0 | B | 10 | 4.5 | 4 | | | DEA |

Comet C/1999 S4 (LINEAR)

| DATE (UT) | N MM | MAG. | RF | AP. | T F/ | PWR | COMA | DC | TAIL | PA | OBS. |
|---------------|------|------|----|-----|------|-----|------|----|------|----|------|
| 1999 11 04.05 | x S | 15.0 | HS | 40 | L 4 | 250 | 0.5 | 4 | | | REN |
| 1999 11 09.98 | x M | 14.5 | HS | 40 | L 4 | 250 | 0.5 | 5 | | | REN |
| 1999 11 16.02 | M | 15.0 | EA | 40 | L 4 | 250 | 0.5 | 5 | | | REN |
| 1999 11 29.97 | x M | 14.7 | HS | 40 | L 4 | 250 | 0.3 | 5 | | | REN |

Comet C/1999 S4 (LINEAR) [cont.]

| DATE (UT) | N | MM | MAG. | RF | AP. | T | F/ | PWR | COMA | DC | TAIL | PA | OBS. |
|---------------|---|----|------|----|-----|---|----|-----|------|----|------|-----|-------|
| 1999 12 05.86 | x | M | 14.8 | HS | 40 | L | 4 | 250 | 0.4 | 5 | | | REN |
| 2000 01 25.81 | x | M | 14.5 | HS | 40 | L | 4 | 250 | 0.3 | 5 | | | REN |
| 2000 06 26.32 | | S | 9.3 | AC | 15 | R | 5 | 42 | 3 | | | | MOR03 |
| 2000 06 27.04 | x | M | 8.4 | TT | 8.0 | B | | 12 | 3 | 6 | | | REN |
| 2000 06 28.32 | | S | 10.0 | AC | 15 | R | 5 | 42 | 1 | S7 | 0.05 | 265 | MOR03 |
| 2000 07 01.31 | | M | 10.1 | AC | 15 | R | 5 | 62 | 1 | S6 | 0.07 | 260 | MOR03 |
| 2000 07 07.04 | x | M | 7.7 | TT | 8.0 | B | | 12 | 3 | 6/ | 0.7 | 270 | REN |
| 2000 07 10.31 | | M | 8.9 | AC | 15 | R | 5 | 42 | 1.5 | S5 | 0.23 | 275 | MOR03 |
| 2000 07 11.33 | | M | 8.8 | AC | 15 | R | 5 | 42 | 1 | S7 | 0.28 | 280 | MOR03 |
| 2000 07 12.07 | x | M | 7.2 | TT | 8.0 | B | | 12 | 3.5 | 6 | 1 | 275 | REN |
| 2000 07 12.32 | | M | 8.8 | AC | 15 | R | 5 | 42 | 1 | S6 | 0.22 | 280 | MOR03 |
| 2000 07 17.95 | x | M | 7.0 | TT | 8.0 | B | | 12 | & 7 | 6 | | | REN |
| 2000 07 20.07 | s | S | 7.5 | AC | 3.5 | B | | 7 | 2.5 | | | | MOR03 |
| 2000 07 21.93 | x | M | 6.2 | TT | 5.0 | B | | 10 | & 5 | 6 | 1.5 | 25 | REN |
| 2000 07 22.12 | | S | 6.6 | AC | 3.5 | B | | 7 | 3 | | 0.25 | 15 | MOR03 |
| 2000 07 24.11 | | S | 6.3 | AC | 3.5 | B | | 7 | 3.5 | | 0.25 | 45 | MOR03 |
| 2000 07 28.10 | s | S | 7.8 | AC | 3.5 | B | | 7 | | | | | MOR03 |
| 2000 07 29.90 | x | M | 7.3 | TT | 8.0 | B | | 12 | 5 | 5/ | 0.5 | 86 | REN |
| 2000 07 30.89 | x | M | 7.8 | TT | 8.0 | B | | 12 | | 4/ | 0.9 | 78 | REN |

Comet C/1999 T1 (McNaught-Hartley)

| DATE (UT) | N | MM | MAG. | RF | AP. | T | F/ | PWR | COMA | DC | TAIL | PA | OBS. |
|---------------|---|----|------|----|------|---|----|-----|------|----|-------|-----|-------|
| 2000 12 09.46 | w | S | 7.7 | AC | 15 | R | 5 | 42 | 4 | 4 | | | MOR03 |
| 2000 12 22.25 | x | M | 7.6 | TT | 5.0 | B | | 10 | & 5 | 5 | | | REN |
| 2000 12 22.29 | | S | 7.7 | S | 7.0 | B | | 10 | 7.5 | 4 | | | DEA |
| 2000 12 23.47 | | S | 8.6 | AC | 15 | R | 5 | 42 | 2 | 4 | | | MOR03 |
| 2000 12 25.46 | | S | 8.3 | AC | 15 | R | 5 | 42 | 3 | 4 | | | MOR03 |
| 2000 12 27.25 | | S | 7.2 | TJ | 8.0 | B | | 20 | 3.0 | 7 | | | ST003 |
| 2000 12 29.45 | | S | 8.5 | AC | 15 | R | 5 | 42 | 3 | 4 | | | MOR03 |
| 2000 12 31.20 | | S | 7.3 | HS | 27.0 | L | 6 | 83 | 5 | 6 | 4 m | 280 | TOT03 |
| 2000 12 31.23 | | S | 7.4 | SC | 8.0 | B | | 20 | 5 | 6 | | | BAR |
| 2001 01 02.44 | | S | 8.4 | AC | 15 | R | 5 | 42 | 3.5 | 4 | | | MOR03 |
| 2001 01 03.23 | x | M | 7.4 | TT | 5.0 | B | | 10 | & 6 | 5 | | | REN |
| 2001 01 06.42 | | S | 7.9 | AA | 20.0 | T | 10 | 50 | 2.3 | 6/ | | | SHA04 |
| 2001 01 08.22 | | S | 8.2 | AC | 10.0 | B | | 14 | 5 | 6 | | | LO001 |
| 2001 01 19.12 | | S | 8.2: | HS | 24.5 | L | 5 | 38 | 4 | 5 | | | CSU01 |
| 2001 01 20.26 | | S | 8.3 | TJ | 15 | R | 8 | 48 | 4.0 | 5 | | | ST003 |
| 2001 01 20.43 | | S | 7.7 | AC | 3.5 | B | | 7 | 5 | | | | MOR03 |
| 2001 01 22.46 | | S | 7.7 | AC | 3.5 | B | | 7 | 7 | | | | MOR03 |
| 2001 01 23.17 | x | M | 7.7 | TT | 8.0 | B | | 12 | 6 | 5 | | | REN |
| 2001 01 26.21 | x | M | 7.8 | TT | 8.0 | B | | 12 | 7 | | | | REN |
| 2001 01 26.54 | | S | 8.0 | AC | 3.5 | B | | 7 | 5 | | | | MOR03 |
| 2001 02 03.12 | | S | 8.0 | AA | 5.0 | B | | 10 | 5 | 5 | 0.1 | 325 | SAN07 |
| 2001 02 06.44 | | S | 8.0 | AC | 3.5 | B | | 7 | 6 | | | | MOR03 |
| 2001 02 16.10 | | M | 8.6 | AA | 20.0 | L | 6 | 45 | 5 | 4/ | 0.1 | 270 | BRL |
| 2001 02 16.15 | | S | 8.5 | AC | 5.0 | B | | 7 | 4 | 5 | | | BRL |
| 2001 02 19.23 | | S | 8.7 | AC | 25 | L | 4 | 53 | 3 | 6 | | | LO001 |
| 2001 02 24.02 | | S | 8.5 | HS | 27.0 | L | 6 | 83 | 5 | 4/ | & 5 m | 290 | TOT03 |
| 2001 02 24.32 | | S | 9.2 | AC | 15 | R | 5 | 42 | 3 | 3 | | | MOR03 |
| 2001 02 28.42 | | S | 9.3 | AC | 6 | R | 15 | 36 | 4.5 | 2 | | | MOR03 |
| 2001 03 02.08 | x | M | 8.6 | TT | 8.0 | B | | 12 | & 5 | 4 | | | REN |
| 2001 03 04.36 | | S | 9.4 | AC | 15 | R | 5 | 42 | 3.5 | 4 | | | MOR03 |
| 2001 03 16.28 | | S | 9.6 | AC | 15 | R | 5 | 42 | 3.5 | 2 | | | MOR03 |
| 2001 03 16.92 | | S | 9.6 | HS | 27.0 | L | 6 | 83 | 4 | 3 | 5 m | 280 | TOT03 |
| 2001 03 19.29 | | S | 10.1 | AC | 15 | R | 5 | 42 | 3.5 | 2 | | | MOR03 |
| 2001 03 28.98 | x | M | 11.2 | HS | 12 | L | 6 | 38 | 3 | 4 | | | REN |
| 2001 04 03.15 | x | M | 11.0 | HS | 12 | L | 6 | 70 | 1.33 | 3 | | | REN |
| 2001 04 13.94 | x | M | 12.8 | HS | 40 | L | 4 | 94 | 0.8 | 3/ | | | REN |
| 2001 04 14.83 | | S | 12.2 | HS | 27.0 | L | 6 | 167 | 1.2 | 3 | | | TOT03 |
| 2001 04 18.37 | | S | 12.2 | AC | 44.5 | L | 4 | 167 | 1.3 | 2 | | | MOR03 |
| 2001 04 20.08 | x | M | 12.7 | HS | 40 | L | 4 | 94 | 1.33 | 4 | | | REN |
| 2001 04 24.91 | | S | 12.0 | HS | 27.0 | L | 6 | 167 | 1.0 | 2/ | | | TOT03 |
| 2001 04 26.01 | x | M | 12.6 | HS | 40 | L | 4 | 94 | 1.33 | 3/ | | | REN |
| 2001 04 28.35 | | S | 13.1 | AC | 44.5 | L | 4 | 167 | 0.9 | 3 | | | MOR03 |

Comet C/1999 T1 (McNaught-Hartley) [cont.]

| DATE (UT) | N | MM | MAG. | RF | AP. | T | F/ | PWR | COMA | DC | TAIL | PA | OBS. |
|---------------|---|----|-------|----|------|---|----|-----|------|----|------|----|-------|
| 2001 04 29.90 | | S | 12.0 | HS | 27.0 | L | 6 | 167 | 1 | 3 | | | TOT03 |
| 2001 05 10.89 | | S | 12.0 | HS | 27.0 | L | 6 | 120 | 1.2 | 2 | | | TOT03 |
| 2001 05 23.94 | | S | 13.0 | HS | 27.0 | L | 6 | 120 | 0.6 | 2 | | | TOT03 |
| 2001 07 10.93 | | S | 13.8 | AC | 40.8 | L | 5 | 262 | 1.2 | 2/ | | | RES |
| 2001 07 11.99 | | S | 13.8 | AC | 40.8 | L | 5 | 121 | 1.0 | 2/ | | | RES |
| 2001 07 12.92 | | S | 13.7 | AC | 40.8 | L | 5 | 121 | 1.0 | 2/ | | | RES |
| 2001 07 13.94 | | S | 13.7 | AC | 40.8 | L | 5 | 121 | 1.0 | 2/ | | | RES |
| 2001 07 18.93 | | S | 13.6 | AC | 40.8 | L | 5 | 262 | 1.5 | 2/ | | | RES |
| 2001 07 20.00 | | S | 13.8 | AC | 40.8 | L | 5 | 262 | 1.0 | 2 | | | RES |
| 2001 07 21.89 | | S | 13.8 | AC | 40.8 | L | 5 | 131 | 0.9 | 2 | | | RES |
| 2001 07 22.90 | | S | 13.9 | AC | 40.8 | L | 5 | 131 | 0.8 | 2 | | | RES |
| 2001 07 26.89 | | S | 13.8 | AC | 40.8 | L | 5 | 131 | 1.0 | 2 | | | RES |
| 2001 07 30.87 | | M | 12.5 | HS | 42 | L | 5 | 162 | 1.2 | 3/ | | | LEH |
| 2001 08 10.85 | | M | 13.3 | HS | 42 | L | 5 | 81 | 1.3 | 3 | | | LEH |
| 2001 08 11.85 | | B | 13.6 | HS | 42 | L | 5 | 81 | 1 | 3 | | | LEH |
| 2001 08 11.90 | | S | [14.0 | TT | 44.0 | L | 5 | 226 | | | | | HAS02 |
| 2001 08 12.84 | | B | 13.6 | HS | 42 | L | 5 | 81 | 1.1 | 3 | | | LEH |
| 2001 08 14.85 | | B | 13.6 | HS | 42 | L | 5 | 81 | 1.2 | 3/ | | | LEH |
| 2001 08 15.83 | | B | 13.6 | HS | 42 | L | 5 | 81 | 1.1 | 3/ | | | LEH |
| 2001 08 16.84 | | B | 13.8 | HS | 42 | L | 5 | 81 | 1.2 | 3 | | | LEH |
| 2001 08 18.85 | | B | 13.8 | HS | 42 | L | 5 | 81 | 1.1 | 3 | | | LEH |
| 2001 08 21.91 | | S | 14.2 | HS | 34.0 | L | 4 | 167 | 0.5 | 2/ | | | TOT03 |
| 2001 08 22.87 | | S | 14.1 | AC | 41 | L | 5 | 121 | 0.6 | 2 | | | RES |
| 2001 08 23.89 | | S | 14.0 | AC | 41 | L | 5 | 121 | 0.7 | 3 | | | RES |
| 2001 08 24.84 | | B | 13.6 | HS | 42 | L | 5 | 81 | 1.2 | 3 | | | LEH |
| 2001 08 25.88 | | B | 13.6 | HS | 42 | L | 5 | 81 | 1.1 | 3 | | | LEH |
| 2001 09 15.94 | | S | 14.8 | NP | 44.5 | L | 5 | 167 | < 1 | 1 | | | MAR02 |
| 2001 09 21.89 | | S | 14.1 | HS | 44.5 | T | 4 | 146 | 1.0 | 1/ | | | SAR02 |

Comet C/1999 T2 (LINEAR)

| DATE (UT) | N | MM | MAG. | RF | AP. | T | F/ | PWR | COMA | DC | TAIL | PA | OBS. |
|---------------|---|----|------|----|------|---|----|-----|-------|----|------|----|-------|
| 2000 07 05.99 | x | M | 14.5 | HS | 40 | L | 4 | 250 | 0.5 | 5 | | | REN |
| 2000 07 21.96 | x | M | 14.2 | HS | 40 | L | 4 | 200 | 0.3 | 5 | | | REN |
| 2000 07 30.99 | x | M | 13.8 | HS | 33 | L | 4 | 115 | 0.7 | 5 | | | REN |
| 2000 08 11.06 | x | M | 13.9 | HS | 40 | L | 4 | 200 | & 0.5 | 5 | | | REN |
| 2000 08 28.97 | x | M | 13.9 | HS | 40 | L | 4 | 200 | 0.4 | 5/ | | | REN |
| 2000 09 04.93 | x | M | 13.7 | HS | 40 | L | 4 | 200 | 0.4 | 5 | | | REN |
| 2000 10 23.82 | x | M | 14.3 | HS | 40 | L | 4 | 250 | 0.4 | 5 | | | REN |
| 2001 01 30.16 | x | M | 14.0 | HS | 40 | L | 4 | 200 | 0.6 | 5/ | | | REN |
| 2001 04 14.03 | x | M | 14.0 | HS | 40 | L | 4 | 150 | 1 | 4 | | | REN |
| 2001 04 19.02 | x | M | 13.9 | HS | 40 | L | 4 | 150 | | 5 | | | REN |
| 2001 04 20.07 | x | M | 13.5 | HS | 40 | L | 4 | 150 | | 4/ | | | REN |
| 2001 04 25.99 | x | M | 13.7 | HS | 40 | L | 4 | 150 | | 5/ | | | REN |
| 2001 05 12.89 | | S | 12.8 | HS | 27.0 | L | 6 | 83 | 1.3 | 3 | | | TOT03 |
| 2001 05 23.95 | | S | 12.9 | HS | 27.0 | L | 6 | 83 | 1.2 | 2 | | | TOT03 |
| 2001 06 12.91 | | S | 13.0 | HS | 27.0 | L | 6 | 167 | 1.0 | 2 | | | TOT03 |
| 2001 07 12.91 | | S | 13.3 | AC | 40.8 | L | 5 | 121 | 1.2 | 3 | | | RES |

Comet C/1999 U4 (Catalina-Skiff)

| DATE (UT) | N | MM | MAG. | RF | AP. | T | F/ | PWR | COMA | DC | TAIL | PA | OBS. |
|---------------|---|----|-------|----|------|---|----|-----|-------|----|------|----|-------|
| 2001 08 29.09 | | S | 13.8 | GA | 31.0 | J | 6 | 143 | 0.5 | 4/ | | | BOU |
| 2001 08 30.06 | | B | 13.3 | HS | 42 | L | 5 | 81 | 1.4 | 3/ | | | LEH |
| 2001 09 19.03 | | S | 13.5 | AC | 41 | L | 5 | 121 | 1.0 | 2/ | | | RES |
| 2001 09 19.98 | | S | 13.6 | AC | 41 | L | 5 | 121 | 1.0 | 3 | | | RES |
| 2001 09 20.06 | | B | 13.4 | HS | 42 | L | 5 | 162 | 1.2 | 3/ | | | LEH |
| 2001 09 22.08 | | S | [14.5 | HS | 44.5 | T | 4 | 224 | ! 0.5 | | | | SAR02 |
| 2001 10 22.14 | | S | [14.0 | HS | 44.5 | T | 4 | 224 | ! 0.5 | | | | SAR02 |

Comet C/1999 Y1 (LINEAR)

| DATE (UT) | N | MM | MAG. | RF | AP. | T | F/ | PWR | COMA | DC | TAIL | PA | OBS. |
|---------------|---|----|------|----|-----|---|----|-----|-------|----|------|----|------|
| 2000 07 31.08 | x | M | 14.2 | HS | 33 | L | 4 | 165 | & 0.5 | 5 | | | REN |
| 2000 08 28.98 | x | M | 13.8 | HS | 40 | L | 4 | 200 | 0.5 | 5 | | | REN |

Comet C/1999 Y1 (LINEAR) [cont.]

| DATE (UT) | N | MM | MAG. | RF | AP. | T | F/ | PWR | COMA | DC | TAIL | PA | OBS. |
|---------------|---|----|------|----|------|---|----|-----|-------|----|------|----|-------|
| 2000 09 04.99 | x | M | 13.8 | HS | 40 | L | 4 | 200 | & 0.4 | 5/ | | | REN |
| 2000 10 23.92 | x | M | 13.2 | HS | 40 | L | 4 | 150 | 0.7 | 6 | | | REN |
| 2000 10 29.00 | | S | 13.3 | AC | 44.5 | L | 4 | 167 | 0.7 | 3 | | | MOR03 |
| 2000 10 30.01 | | S | 13.3 | AC | 44.5 | L | 4 | 167 | 0.7 | 3 | | | MOR03 |
| 2000 11 01.25 | | S | 13.2 | AC | 44.5 | L | 4 | 167 | 1.0 | 3 | | | MOR03 |
| 2000 11 03.95 | x | M | 13.0 | HS | 40 | L | 4 | 150 | 1 | 5 | | | REN |
| 2000 11 17.82 | x | M | 13.0 | HS | 40 | L | 4 | 150 | 0.6 | 6 | | | REN |
| 2000 11 23.82 | x | M | 13.0 | HS | 40 | L | 4 | 150 | 0.6 | 5 | | | REN |
| 2000 12 16.79 | x | M | 13.8 | HS | 40 | L | 4 | 150 | 1 | 5 | | | REN |
| 2000 12 21.04 | | S | 12.9 | AC | 44.5 | L | 4 | 167 | 0.7 | 2 | | | MOR03 |
| 2000 12 21.80 | x | M | 13.5 | HS | 40 | L | 4 | 150 | 1.25 | 5 | | | REN |
| 2001 01 14.76 | | S | 13.2 | HS | 27.0 | L | 6 | 120 | 1.0 | 1/ | | | TOT03 |
| 2001 01 25.81 | x | M | 14.0 | HS | 40 | L | 4 | 200 | 0.5 | 5/ | | | REN |
| 2001 08 12.64 | | S | 12.8 | HS | 20 | L | 7 | 45 | 1.0 | 5 | | | MAT08 |
| 2001 08 14.58 | | S | 12.4 | GA | 25.4 | L | | 71 | | | | | SEA |
| 2001 08 23.59 | | B | 12.6 | HS | 20 | L | 7 | 45 | 1.0 | 7 | | | MAT08 |
| 2001 08 26.05 | | S | 12.9 | HS | 25.4 | T | 10 | 102 | 2 | 1 | | | DES01 |
| 2001 09 09.55 | | B | 12.8 | NO | 20 | L | 7 | 45 | 1.0 | 6 | | | MAT08 |
| 2001 09 14.56 | | B | 13.0 | NO | 30 | L | 6 | 60 | 1.0 | 6 | | | MAT08 |
| 2001 09 16.44 | | B | 13.0 | NO | 30 | L | 6 | 60 | 1.0 | 6 | | | MAT08 |
| 2001 10 08.55 | | S | 13.6 | HS | 28 | L | 10 | 88 | 0.8 | 5/ | | | MAT08 |
| 2001 10 13.62 | | S | 13.7 | HS | 28 | L | 10 | 88 | 0.8 | 5/ | | | MAT08 |
| 2001 10 14.48 | | S | 13.6 | HS | 28 | L | 10 | 88 | 0.9 | 6/ | | | MAT08 |
| 2001 10 16.60 | | S | 13.6 | HS | 28 | L | 10 | 88 | 0.8 | 6/ | | | MAT08 |
| 2001 10 19.42 | | S | 13.6 | GA | 25.4 | L | | 71 | | | | | SEA |

Comet C/2000 CT54 (LINEAR)

| DATE (UT) | N | MM | MAG. | RF | AP. | T | F/ | PWR | COMA | DC | TAIL | PA | OBS. |
|---------------|---|----|-------|----|------|---|----|-----|------|----|------|----|------|
| 2001 06 10.80 | | S | 14.1: | SK | 40.6 | L | 4 | 147 | 0.6 | | | | BOU |
| 2001 06 11.83 | | S | 14.2 | SK | 40.6 | L | 4 | 147 | 0.8 | 2/ | | | BOU |
| 2001 06 12.84 | | S | 14.5 | SK | 40.6 | L | 4 | 183 | 0.6 | 2 | | | BOU |
| 2001 06 13.88 | | S | 14.4 | SK | 40.6 | L | 4 | 147 | 0.5 | 3 | | | BOU |
| 2001 06 14.83 | | S | 14.5 | SK | 40.6 | L | 4 | 122 | 0.6 | 3 | | | BOU |

Comet C/2000 OF8 (Spacewatch)

| DATE (UT) | N | MM | MAG. | RF | AP. | T | F/ | PWR | COMA | DC | TAIL | PA | OBS. |
|---------------|---|----|-------|----|------|---|----|-----|------|----|------|----|------|
| 2001 06 10.72 | w | S | 14.6 | AC | 40.6 | L | 4 | 183 | 0.6 | 4 | | | BOU |
| 2001 06 11.71 | w | S | 14.4: | AC | 40.6 | L | 4 | 147 | 0.8 | 4 | | | BOU |
| 2001 06 12.82 | | S | 14.7 | HS | 40.6 | L | 4 | 183 | 0.8 | 3 | | | BOU |
| 2001 06 13.74 | w | S | 14.5 | AC | 40.6 | L | 4 | 183 | 0.6 | 3 | | | BOU |
| 2001 06 14.77 | | S | 14.5 | HS | 40.6 | L | 4 | 183 | 0.7 | 3 | | | BOU |

Comet C/2000 SV74 (LINEAR)

| DATE (UT) | N | MM | MAG. | RF | AP. | T | F/ | PWR | COMA | DC | TAIL | PA | OBS. |
|---------------|---|----|-------|----|------|---|----|-----|------|----|------|----|-------|
| 2001 07 22.03 | | S | 13.7 | AC | 40.8 | L | 5 | 262 | 1.0 | 2/ | | | RES |
| 2001 07 27.02 | | S | 13.7 | AC | 40.8 | L | 5 | 131 | 1.0 | 2/ | | | RES |
| 2001 08 11.86 | | S | 14.0 | TT | 44.0 | L | 5 | 156 | | | | | HAS02 |
| 2001 08 14.98 | | B | 13.2 | HS | 42 | L | 5 | 81 | 1.3 | 4/ | | | LEH |
| 2001 08 15.95 | | M | 12.8 | HS | 42 | L | 5 | 81 | 1.4 | 4 | | | LEH |
| 2001 08 16.97 | | M | 12.8 | HS | 42 | L | 5 | 81 | 1.3 | 4 | | | LEH |
| 2001 08 16.97 | | S | 13.8 | HS | 31.0 | J | 6 | 143 | 0.6 | 2 | | | BOU |
| 2001 08 17.02 | | S | 13.5: | HS | 20 | T | 10 | 100 | 1.0 | 3 | | | SHA02 |
| 2001 08 17.96 | | S | 13.8 | HS | 31.0 | J | 6 | 143 | 0.6 | 3 | | | BOU |
| 2001 08 17.97 | | S | 13.9 | HS | 31.0 | J | 6 | 143 | 0.5 | 2 | | | DIJ |
| 2001 08 18.91 | | M | 12.3 | HS | 42 | L | 5 | 81 | 1.4 | 3 | | | LEH |
| 2001 08 23.04 | | S | 13.6 | AC | 41 | L | 5 | 121 | 1.2 | 2/ | | | RES |
| 2001 08 23.94 | | S | 13.7 | AC | 41 | L | 5 | 121 | 1.5 | 2/ | | | RES |
| 2001 08 23.98 | | M | 12.1: | HS | 42 | L | 5 | 81 | 1.5 | 3 | | | LEH |
| 2001 08 24.95 | | S | 13.4 | AC | 41 | L | 5 | 121 | 1.2 | 2/ | | | RES |
| 2001 08 24.99 | | M | 12.0 | HS | 42 | L | 5 | 81 | 1.6 | 3 | | | LEH |
| 2001 08 25.92 | | S | 13.7 | HS | 34.0 | L | 4 | 167 | 0.7 | 4 | | | TOT03 |
| 2001 08 25.97 | | S | 13.1 | AC | 41 | L | 5 | 121 | 1.5 | 3 | | | RES |

Comet C/2000 SV74 (LINEAR) [cont.]

| DATE (UT) | N | MM | MAG. | RF | AP. | T | F/ | PWR | COMA | DC | TAIL | PA | OBS. |
|---------------|---|----|-------|----|------|---|----|-----|------|----|------|----|-------|
| 2001 08 26.00 | | M | 12.0 | HS | 42 | L | 5 | 81 | 1.5 | 3 | | | LEH |
| 2001 08 26.96 | | M | 12.5 | HS | 42 | L | 5 | 81 | 1.3 | 3 | | | LEH |
| 2001 08 27.02 | | S | 13.3 | AC | 41 | L | 5 | 121 | 1.5 | 3 | | | RES |
| 2001 08 27.05 | | S | 12.8 | HS | 35 | L | 5 | 158 | 1.3 | 3 | | | HOR02 |
| 2001 08 28.07 | | I | [14.0 | HS | 20 | T | 10 | 135 | | | | | SHA02 |
| 2001 08 28.07 | | S | 13.5 | AC | 41 | L | 5 | 121 | 1.2 | 2/ | | | RES |
| 2001 08 29.06 | | S | 13.6 | HS | 31.0 | J | 6 | 143 | 0.8 | 2/ | | | BOU |
| 2001 08 29.07 | | S | 13.2 | HS | 31.0 | J | 6 | 143 | 0.7 | 2/ | | | DIJ |
| 2001 08 29.09 | | S | 13.7 | HS | 20 | T | 10 | 205 | 0.5 | 3 | | | SHA02 |
| 2001 08 30.01 | | M | 12.7 | HS | 42 | L | 5 | 81 | 1.5 | 3 | | | LEH |
| 2001 08 30.05 | | M | 12.6 | HS | 35 | L | 5 | 158 | 1.6 | 3/ | | | HOR02 |
| 2001 08 31.06 | | S | 13.6 | AC | 41 | L | 5 | 121 | 1.2 | 2 | | | RES |
| 2001 08 31.09 | | M | 12.6 | HS | 42 | L | 5 | 81 | 1.5 | 3 | | | LEH |
| 2001 09 08.89 | | S | 13.6 | AC | 41 | L | 5 | 121 | 1.2 | 2/ | | | RES |
| 2001 09 15.98 | | M | 13.5 | NP | 44.5 | L | 5 | 167 | 1 | 3 | | | SAN04 |
| 2001 09 15.98 | | S | 13.1 | NP | 44.5 | L | 5 | 167 | 1.5 | 2 | | | MAR02 |
| 2001 09 16.93 | | S | 13.5 | HS | 36 | L | 6 | 90 | 0.5 | 4 | | | BAR06 |
| 2001 09 18.84 | | S | 12.4 | HS | 13 | L | 8 | 69 | 1.0 | 2/ | | | HOR02 |
| 2001 09 18.84 | | S | 13.5 | HS | 44.0 | L | 5 | 156 | 0.3 | 4 | | | HAS02 |
| 2001 09 18.99 | | S | 13.3 | AC | 41 | L | 5 | 121 | 1.2 | 2/ | | | RES |
| 2001 09 19.84 | | M | 12.4 | HS | 42 | L | 5 | 81 | 1.1 | 3 | | | LEH |
| 2001 09 19.94 | | S | 13.6 | AC | 41 | L | 5 | 121 | 1.1 | 2/ | | | RES |
| 2001 09 20.79 | | S | 12.4 | HS | 13 | L | 8 | 69 | 1.1 | 2/ | | | HOR02 |
| 2001 09 21.81 | | M | 12.2 | HS | 42 | L | 5 | 81 | 1.3 | 3 | | | LEH |
| 2001 09 21.99 | | M | 13.2 | HS | 44.5 | T | 4 | 146 | 0.6 | 5/ | | | SAR02 |
| 2001 09 22.69 | | S | 11.8 | HS | 25.4 | T | 6 | 116 | 1.8 | 3/ | | | YOS04 |
| 2001 09 22.82 | | M | 12.5 | HS | 42 | L | 5 | 81 | 1.1 | 3 | | | LEH |
| 2001 10 08.79 | | S | 12.9 | AC | 31.0 | J | 6 | 109 | 1.3 | 4/ | | | BOU |
| 2001 10 08.79 | | S | 12.9 | HS | 31.0 | J | 6 | 109 | 0.6 | 2/ | | | DIJ |
| 2001 10 15.84 | | S | 13.0 | AC | 31.0 | J | 6 | 109 | 1.0 | 3/ | | | BOU |
| 2001 10 15.85 | | S | 13.0 | AC | 31.0 | J | 6 | 109 | | 2 | | | DIJ |
| 2001 10 16.94 | | S | 13.0 | AC | 31.0 | J | 6 | 143 | 0.9 | 3 | | | BOU |
| 2001 10 18.63 | x | S | 12.5: | HS | 32.0 | L | 5 | 91 | 0.9 | 3 | | | NAG08 |
| 2001 10 20.01 | | S | 13.4 | AC | 41 | L | 5 | 121 | 1.5 | 2/ | | | RES |
| 2001 10 23.09 | | S | 13.0 | HS | 44.5 | T | 4 | 146 | 0.8 | 4 | | | SAR02 |
| 2001 10 24.66 | x | S | 12.5: | HS | 32.0 | L | 5 | 58 | 0.9 | 3 | | | NAG08 |

Comet C/2000 W1 (Utsunomiya-Jones)

| DATE (UT) | N | MM | MAG. | RF | AP. | T | F/ | PWR | COMA | DC | TAIL | PA | OBS. |
|---------------|---|----|------|----|-----|---|----|-----|------|----|------|----|------|
| 2000 12 05.95 | | B | 6.7 | S | 7.0 | B | | 10 | 5.5 | 6 | | | DEA |
| 2000 12 06.95 | | S | 6.4 | S | 7.0 | B | | 10 | 6.8 | 5 | | | DEA |
| 2000 12 07.94 | | S | 6.4 | S | 7.0 | B | | 10 | 6.4 | 6 | | | DEA |

Comet C/2000 WM1 (LINEAR)

| DATE (UT) | N | MM | MAG. | RF | AP. | T | F/ | PWR | COMA | DC | TAIL | PA | OBS. |
|---------------|---|----|-------|----|------|---|----|-----|------|----|------|----|-------|
| 2001 08 14.99 | | M | 12.4 | HS | 42 | L | 5 | 81 | 1.4 | 3 | | | LEH |
| 2001 08 15.01 | | S | 13.4 | AC | 41 | L | 5 | 121 | 0.7 | 2 | | | RES |
| 2001 08 15.96 | | M | 12.6 | HS | 42 | L | 5 | 81 | 1.5 | 3 | | | LEH |
| 2001 08 16.02 | | S | 13.7 | AC | 41 | L | 5 | 262 | 0.7 | 2 | | | RES |
| 2001 08 16.99 | | S | 13.8 | GA | 31.0 | J | 6 | 177 | 0.6 | 3 | | | BOU |
| 2001 08 17.05 | | M | 12.3 | HS | 42 | L | 5 | 81 | 1.5 | 3 | | | LEH |
| 2001 08 17.05 | | S | [13.0 | HS | 20 | T | 10 | 100 | | | | | SHA02 |
| 2001 08 18.06 | | S | 14.1 | HS | 25.6 | L | 5 | 169 | 0.5 | 3 | | | BIV |
| 2001 08 18.07 | | S | 14.1 | HS | 25.6 | L | 5 | 84 | 0.5 | 3 | | | BIV |
| 2001 08 23.05 | | S | 13.5 | AC | 41 | L | 5 | 121 | 1.5 | 2/ | | | RES |
| 2001 08 23.99 | | M | 11.9 | HS | 42 | L | 5 | 81 | 1.6 | 3 | | | LEH |
| 2001 08 25.00 | | M | 11.9 | HS | 42 | L | 5 | 81 | 1.8 | 3 | | | LEH |
| 2001 08 26.02 | | M | 11.8 | HS | 42 | L | 5 | 81 | 1.8 | 3 | | | LEH |
| 2001 08 26.98 | | M | 11.4 | HS | 42 | L | 5 | 81 | 2 | 3 | | | LEH |
| 2001 08 27.02 | | S | 13.5 | AC | 41 | L | 5 | 121 | 1.0 | 2 | | | RES |
| 2001 08 27.06 | | S | 12.5 | HS | 35 | L | 5 | 158 | 1.4 | 3 | | | HOR02 |
| 2001 08 28.07 | | S | 13.2 | AC | 41 | L | 5 | 121 | 1.5 | 3 | | | RES |
| 2001 08 28.09 | | S | [13.0 | HS | 20 | T | 10 | 135 | | | | | SHA02 |

Comet C/2000 WM1 (LINEAR) [cont.]

| DATE (UT) | N | MM | MAG. | RF | AP. | T | F/ | PWR | COMA | DC | TAIL | PA | OBS. |
|---------------|---|----|------|----|------|---|----|-----|------|----|------|-------|-------|
| 2001 08 29.07 | | S | 13.5 | GA | 31.0 | J | 6 | 143 | 0.8 | 3/ | | | BOU |
| 2001 08 29.11 | | S | 12.7 | HS | 20 | T | 10 | 205 | 0.3 | 3 | | | SHA02 |
| 2001 08 30.01 | | S | 13.3 | AC | 41 | L | 5 | 121 | 1.2 | 2 | | | RES |
| 2001 08 30.02 | | M | 11.5 | HS | 42 | L | 5 | 81 | 1.8 | 4 | | | LEH |
| 2001 08 30.06 | | M | 12.5 | HS | 35 | L | 5 | 158 | 1.2 | 5/ | | | HOR02 |
| 2001 08 31.05 | | S | 13.4 | AC | 41 | L | 5 | 121 | 1.3 | 2/ | | | RES |
| 2001 08 31.10 | | M | 11.5 | HS | 42 | L | 5 | 81 | 1.7 | 4 | | | LEH |
| 2001 09 01.17 | | S | 13.2 | HS | 25.6 | L | 5 | 169 | 0.6 | 5 | | | BIV |
| 2001 09 14.90 | | S | 12.8 | AC | 31.0 | J | 6 | 109 | 1.2 | 3 | | | BOU |
| 2001 09 14.93 | | S | 13.1 | HS | 25.6 | L | 5 | 169 | 0.8 | 3 | | | BIV |
| 2001 09 14.94 | | S | 12.9 | HS | 25.6 | L | 5 | 84 | 1.0 | 2 | | | BIV |
| 2001 09 15.09 | | S | 12.8 | HS | 25.6 | L | 5 | 84 | 1.2 | 2 | | | BIV |
| 2001 09 15.88 | | S | 11.7 | HS | 36 | L | 6 | 90 | 1.5 | 2 | | | BAR06 |
| 2001 09 15.99 | | M | 12.3 | NP | 44.5 | L | 5 | 167 | 2 | 3 | | | MAR02 |
| 2001 09 15.99 | | S | 12.1 | NP | 44.5 | L | 5 | 167 | 1.5 | 2 | | | SAN04 |
| 2001 09 17.68 | x | S | 11.9 | GA | 25.4 | L | 4 | 113 | 1.0 | 3 | | | YOS02 |
| 2001 09 18.85 | | S | 11.8 | TK | 13 | L | 8 | 69 | 1.2 | 3 | | | HOR02 |
| 2001 09 18.99 | | S | 11.9 | AC | 41 | L | 5 | 121 | 2.2 | 3 | | | RES |
| 2001 09 19.86 | | M | 11.4 | HS | 42 | L | 5 | 81 | 1.9 | 3 | | | LEH |
| 2001 09 19.98 | | S | 11.7 | AC | 41 | L | 5 | 121 | 1.5 | 3 | | | RES |
| 2001 09 21.84 | | M | 11.6 | HS | 42 | L | 5 | 81 | 1.5 | 3 | | | LEH |
| 2001 09 21.97 | | S | 11.5 | HS | 36 | L | 6 | 90 | 2.3 | 2 | | | BAR06 |
| 2001 09 22.02 | | M | 12.4 | HS | 44.5 | T | 4 | 146 | 0.9 | s5 | 2.5m | 260 | SAR02 |
| 2001 09 22.14 | | S | 12.6 | HS | 20.3 | L | 6 | 95 | 0.8 | 3 | | | BIV |
| 2001 09 22.66 | | M | 12.4 | HS | 25.0 | L | 6 | 120 | 0.6 | 3 | | | TSU02 |
| 2001 09 22.71 | | S | 11.2 | HS | 25.4 | T | 6 | 116 | 1.4 | 3/ | | | YOS04 |
| 2001 09 22.78 | x | S | 12.3 | HS | 32.0 | L | 5 | 58 | 1.1 | 4 | | | NAG08 |
| 2001 09 22.85 | | M | 11.6 | HS | 42 | L | 5 | 81 | 1.4 | 3 | | | LEH |
| 2001 09 23.11 | | S | 12.7 | HS | 20.3 | L | 6 | 95 | 1.0 | 3 | | | BIV |
| 2001 09 27.08 | | M | 11.6 | GA | 25 | L | 4 | 53 | 1.6 | 2/ | | | SHU |
| 2001 09 28.73 | | S | 11.8 | HS | 25.4 | T | 6 | 62 | 1.8 | 4 | | | YOS04 |
| 2001 09 29.04 | | M | 12.1 | PA | 30 | L | 5 | 60 | 1.2 | 2 | | | NEV |
| 2001 09 29.13 | | S | 11.5 | GA | 25.4 | J | 6 | 72 | 1.9 | 3/ | | | BOU |
| 2001 09 30.14 | | S | 12.0 | HS | 25.6 | L | 5 | 42 | 1.8 | 4 | | | BIV |
| 2001 09 30.14 | | S | 12.2 | HS | 25.6 | L | 5 | 84 | 1.6 | 5 | 0.03 | 290 | BIV |
| 2001 10 08.82 | | S | 10.5 | TJ | 31.0 | J | 6 | 72 | 1.9 | 3 | | | DIJ |
| 2001 10 08.82 | | S | 11.1 | TJ | 31.0 | J | 6 | 72 | 2.8 | 3/ | | | BOU |
| 2001 10 11.08 | | S | 11.3 | TJ | 20.3 | T | 10 | 100 | 1.3 | 2 | | | GRA04 |
| 2001 10 11.58 | x | S | 10.9 | TJ | 32.0 | L | 5 | 58 | 2.8 | 4 | | | NAG08 |
| 2001 10 12.15 | | S | 11.3 | TK | 20.3 | L | 6 | 48 | 1.8 | 3 | | | BIV |
| 2001 10 12.16 | | S | 11.4 | TK | 20.3 | L | 6 | 95 | 1.6 | 3 | | | BIV |
| 2001 10 12.94 | | S | 10.8 | AC | 41 | L | 5 | 121 | 2.5 | 3/ | | | RES |
| 2001 10 12.98 | | S | 11.3 | TK | 25.6 | L | 5 | 84 | 2.0 | 3 | | | BIV |
| 2001 10 13.64 | x | S | 11.0 | HS | 31.7 | L | 6 | 63 | 1.3 | 3 | | | MIY01 |
| 2001 10 13.67 | x | S | 11.1 | TT | 25.4 | L | 4 | 46 | 1.5 | 4 | | | YOS02 |
| 2001 10 13.91 | | S | 10.9 | TT | 44.0 | L | 5 | 63 | 1.0 | 4 | 0.04 | 270 | HAS02 |
| 2001 10 13.95 | | S | 11.0 | AC | 41 | L | 5 | 121 | 2.5 | 3 | | | RES |
| 2001 10 14.08 | | S | 10.8 | TJ | 20.3 | T | 10 | 62 | 2.2 | 4 | | | GRA04 |
| 2001 10 14.38 | | S | 11.7 | TK | 25 | L | 4 | 50 | 1.0 | 5 | | | LIN04 |
| 2001 10 14.39 | | S | 11.9 | TK | 38 | L | 5 | 174 | 0.8 | 5 | 1.2m | 270 | LIN04 |
| 2001 10 14.67 | x | S | 10.7 | TT | 25.4 | L | 4 | 46 | 1.6 | 4 | | | YOS02 |
| 2001 10 15.84 | | S | 10.2 | HS | 11 | L | 7 | 50 | 3 | 2 | | | BAR06 |
| 2001 10 15.87 | | S | 10.6 | TJ | 31.0 | J | 6 | 72 | 2.5 | 3 | | | DIJ |
| 2001 10 15.87 | | S | 10.8 | TJ | 31.0 | J | 6 | 72 | 2.7 | 4 | | | BOU |
| 2001 10 16.17 | | S | 11.2 | TK | 20.3 | L | 6 | 48 | 1.8 | 2 | 0.04 | 275 | BIV |
| 2001 10 16.80 | | M | 10.7 | PA | 30 | L | 5 | 60 | 2 | 5 | 0.2 | 275 | NEV |
| 2001 10 16.91 | | M | 10.5 | TJ | 31.0 | J | 6 | 72 | 2.5 | 4/ | 3 | m 270 | BOU |
| 2001 10 16.92 | | S | 10.3 | TJ | 31.0 | J | 6 | 72 | 3.0 | 3/ | | | DIJ |
| 2001 10 18.65 | x | S | 10.3 | TJ | 32.0 | L | 5 | 58 | 2.1 | 6 | 3 | m 255 | NAG08 |
| 2001 10 18.73 | x | S | 10.7 | HS | 10.0 | B | | 37 | 2 | 3 | | | YOS02 |
| 2001 10 18.93 | | S | 11.3 | TK | 25.6 | L | 5 | 84 | 1.7 | 2 | | | BIV |
| 2001 10 19.63 | x | M | 10.2 | TT | 25.0 | L | 6 | 47 | 2.5 | 4 | 7 | m 270 | TSU02 |
| 2001 10 19.70 | | S | 10.2 | TJ | 25.4 | T | 6 | 62 | 2.7 | 4 | 5 | m 255 | YOS04 |
| 2001 10 19.94 | | S | 10.0 | TJ | 25.4 | J | 6 | 58 | 2.9 | 3 | | | DIJ |
| 2001 10 19.94 | | S | 10.2 | TJ | 25.4 | J | 6 | 58 | 3.0 | 4 | | | BOU |

Comet C/2000 WM1 (LINEAR) [cont.]

| DATE (UT) | N | MM | MAG. | RF | AP. | T | F/ | PWR | COMA | DC | TAIL | PA | OBS. |
|---------------|---|----|------|----|------|---|----|-----|------|----|------|-----|-------|
| 2001 10 20.02 | | S | 10.7 | AC | 41 | L | 5 | 121 | & 2 | 3/ | | | RES |
| 2001 10 21.90 | | M | 10.2 | PA | 30 | L | 5 | 60 | 2.5 | 4 | 0.1 | 270 | NEV |
| 2001 10 22.08 | | S | 10.4 | TJ | 20.3 | T | 10 | 100 | 2.0 | 3/ | | | GRA04 |
| 2001 10 22.09 | | S | 9.7 | TI | 6.0 | B | | 20 | 10 | 3 | | | SAR02 |
| 2001 10 23.04 | | S | 10.0 | TJ | 20.3 | T | 10 | 62 | 2.6 | 3 | | | GRA04 |
| 2001 10 23.75 | x | B | 11.7 | HS | 25.0 | L | 6 | 69 | 0.8 | 4 | | | WAT01 |
| 2001 10 23.82 | | M | 10.9 | PA | 30 | L | 5 | 60 | 2.3 | 5 | | | NEV |
| 2001 10 24.01 | | S | 10.8 | NP | 25 | L | 5 | 96 | 3 | 3 | | | SEG |
| 2001 10 24.07 | | M | 10.5 | GA | 25 | L | 4 | 53 | 2 | 4/ | | | SHU |
| 2001 10 24.13 | | S | 10.3 | TK | 20.3 | L | 6 | 48 | 1.8 | 2 | 0.06 | 265 | BIV |
| 2001 10 24.64 | x | S | 10.0 | TJ | 32.0 | L | 5 | 58 | 2.6 | 5/ | 4 m | 270 | NAG08 |
| 2001 10 24.84 | | M | 10.0 | PA | 30 | L | 5 | 60 | 2.2 | s5 | 0.1 | 265 | NEV |
| 2001 10 25.07 | | M | 10.7 | GA | 25 | L | 4 | 53 | 1.5 | 5 | 3 m | 245 | SHU |
| 2001 10 25.79 | x | B | 11.2 | TJ | 25.0 | L | 6 | 69 | 1.7 | 5 | | | WAT01 |
| 2001 10 26.13 | | S | 10.2 | TK | 20.3 | L | 6 | 48 | 2.0 | 3 | 0.06 | 260 | BIV |
| 2001 10 26.80 | x | B | 10.9 | HS | 25.0 | L | 6 | 69 | 2.9 | 4 | | | WAT01 |
| 2001 10 26.95 | | S | 9.8 | TJ | 41 | L | 5 | 121 | 3.5 | 4 | | | RES |
| 2001 10 28.06 | | S | 9.9 | HS | 36 | L | 6 | 90 | 3 | 3 | | | BAR06 |
| 2001 10 28.14 | | S | 10.0 | TK | 25.6 | L | 5 | 42 | 3.0 | 3 | 0.1 | 260 | BIV |
| 2001 10 29.82 | x | M | 10.0 | TT | 25.4 | L | 4 | 46 | 2.5 | 4 | 7 m | 260 | YOS02 |

Comet C/2001 A2 (LINEAR)

| DATE (UT) | N | MM | MAG. | RF | AP. | T | F/ | PWR | COMA | DC | TAIL | PA | OBS. |
|---------------|---|----|------|----|------|---|----|-----|------|----|------|-----|-------|
| 2001 04 01.39 | x | S | 9.1 | TK | 31.7 | L | 5 | 64 | 1 | 2 | | | JON |
| 2001 04 03.80 | | S | 7 | HS | 27.0 | L | 6 | 83 | 3 | | | | TOT03 |
| 2001 04 05.38 | | S | 8.5 | AA | 25.4 | L | 6 | 61 | 3.5 | 3 | | | SEA01 |
| 2001 04 05.80 | | S | 6.8 | HS | 27.0 | L | 6 | 83 | 3 | | | | TOT03 |
| 2001 04 10.05 | w | S | 8.6 | AC | 15 | R | 5 | 42 | 4.5 | 3 | | | MOR03 |
| 2001 04 11.40 | | M | 8.8 | AA | 8.0 | B | | 15 | 1.5 | 7 | | | SEA01 |
| 2001 04 13.09 | w | S | 8.7 | AC | 15 | R | 5 | 42 | 4 | 3 | | | MOR03 |
| 2001 04 13.74 | | S | 6.8 | HS | 27.0 | L | 6 | 83 | 3 | 5 | | | TOT03 |
| 2001 04 15.04 | | S | 7.8 | AA | 20.0 | T | 10 | 50 | 2.7 | 3/ | | | SHA04 |
| 2001 04 15.35 | | M | 8.9 | AA | 8.0 | B | | 15 | 2.0 | 5 | | | SEA01 |
| 2001 04 16.38 | | M | 8.8 | AA | 8.0 | B | | 15 | 3.0 | 4 | | | SEA01 |
| 2001 04 17.38 | | M | 8.8 | AA | 8.0 | B | | 15 | 4.0 | 3 | | | SEA01 |
| 2001 04 18.36 | | M | 8.5 | AA | 8.0 | B | | 15 | 5.0 | 3 | | | SEA01 |
| 2001 04 18.78 | | S | 8.0 | HS | 27.0 | L | 6 | 83 | 2 | 3 | | | TOT03 |
| 2001 04 19.07 | w | S | 8.5 | AC | 15 | R | 5 | 42 | 3.5 | | | | MOR03 |
| 2001 04 19.36 | | M | 8.5 | AA | 8.0 | B | | 15 | 4.5 | 3 | | | SEA01 |
| 2001 04 20.07 | w | S | 8.5 | AC | 15 | R | 5 | 42 | 4 | | | | MOR03 |
| 2001 04 20.35 | | M | 8.4 | AA | 8.0 | B | | 15 | 5.0 | 3 | | | SEA01 |
| 2001 04 22.04 | | S | 7.4 | AA | 20.0 | T | 10 | 50 | 3.4 | 5/ | | | SHA04 |
| 2001 04 22.35 | x | S | 7.6 | TK | 4.5 | R | 6 | 13 | 4 | 2 | | | JON |
| 2001 04 23.31 | x | S | 7.8 | TK | 4.5 | R | 6 | 13 | 4 | 2 | | | JON |
| 2001 04 23.34 | | M | 8.4 | AA | 8.0 | B | | 15 | 4.5 | 4 | | | SEA01 |
| 2001 04 24.34 | | M | 8.1 | AA | 5.0 | B | | 10 | 5.0 | 5 | | | SEA01 |
| 2001 04 25.36 | | M | 7.6 | AA | 5.0 | B | | 10 | 3.5 | 7 | | | SEA01 |
| 2001 04 26.30 | x | S | 7.0 | TK | 4.5 | R | 6 | 13 | 4 | 2 | | | JON |
| 2001 04 27.04 | | S | 6.3 | AA | 20.0 | T | 10 | 50 | 3.4 | 6 | | | SHA04 |
| 2001 04 27.29 | x | S | 6.9 | TK | 4.5 | R | 6 | 13 | 4 | 2 | | | JON |
| 2001 04 28.34 | | M | 7.6 | AA | 5.0 | B | | 10 | 3.5 | 7 | | | SEA01 |
| 2001 05 03.96 | | B | 6.0 | TJ | 5.0 | B | | 7 | 5 | 6 | | | MAN04 |
| 2001 05 05.96 | | B | 5.9 | TJ | 5.0 | B | | 7 | 5 | 6 | | | MAN04 |
| 2001 05 07.33 | | B | 5.8 | TJ | 5.0 | B | | 8 | 6 | 7 | | | KEM01 |
| 2001 05 08.31 | | B | 5.8 | TJ | 5.0 | B | | 8 | 6 | 7 | | | KEM01 |
| 2001 05 11.33 | | M | 5.4 | AA | 5.0 | B | | 10 | 3.8 | 7 | | | SEA01 |
| 2001 05 11.97 | | B | 5.7 | TJ | 5.0 | B | | 7 | 6 | 6 | | | MAN04 |
| 2001 05 12.33 | | I | 5.2 | AA | 0.0 | E | | 1 | | | | | SEA01 |
| 2001 05 12.33 | | M | 5.4 | AA | 5.0 | B | | 10 | 4.5 | 8 | 2.2 | 115 | SEA01 |
| 2001 05 13.96 | | B | 5.6 | TJ | 5.0 | B | | 7 | 6 | 6 | | | MAN04 |
| 2001 05 14.28 | | B | 5.3 | TJ | 5.0 | B | | 8 | 6 | 7 | | | KEM01 |
| 2001 05 14.29 | x | S | 5.5 | TK | 4.5 | R | 6 | 13 | 4 | 5 | | | JON |
| 2001 05 15.30 | x | S | 5.4 | TK | 4.5 | R | 6 | 13 | 4.5 | 5 | | | JON |
| 2001 05 15.31 | | B | 5.4 | TJ | 5.0 | B | | 8 | 6 | 7 | | | KEM01 |

Comet C/2001 A2 (LINEAR) [cont.]

| DATE (UT) | N | MM | MAG. | RF | AP. | T | F/ | PWR | COMA | DC | TAIL | PA | OBS. |
|---------------|---|----|------|----|------|---|----|-----|------|----|------|-----|-------|
| 2001 05 16.30 | x | S | 5.4 | TK | 4.5 | R | 6 | 13 | 4 | 6 | | | JON |
| 2001 05 16.94 | | B | 5.6 | TJ | 5.0 | B | | 7 | 6 | 6 | | | MAN04 |
| 2001 05 17.29 | x | S | 5.3 | TK | 4.5 | R | 6 | 13 | 4 | 5 | | | JON |
| 2001 05 17.93 | | B | 5.5 | TJ | 5.0 | B | | 7 | 6 | 6 | | | MAN04 |
| 2001 05 18.93 | | B | 5.5 | TJ | 5.0 | B | | 7 | 6 | 6 | | | MAN04 |
| 2001 05 19.32 | x | S | 5.2 | TK | 4.5 | R | 6 | 13 | 4 | 5 | | | JON |
| 2001 05 20.29 | | B | 5.3 | TJ | 5.0 | B | | 8 | 6 | 7 | | | KEM01 |
| 2001 05 22.28 | | B | 5.2 | TJ | 5.0 | B | | 8 | 6 | 7 | | | KEM01 |
| 2001 05 23.30 | x | S | 5.1 | TK | 4.5 | R | 6 | 13 | 4 | 5 | | | JON |
| 2001 05 23.31 | | B | 5.1 | TJ | 5.0 | B | | 8 | 6 | 7 | | | KEM01 |
| 2001 05 24.30 | | B | 5.1 | TJ | 5.0 | B | | 8 | 6 | 7 | | | KEM01 |
| 2001 05 27.29 | x | S | 5.4 | TK | 4.5 | R | 6 | 13 | 4.5 | 6 | | | JON |
| 2001 05 30.29 | x | S | 5.2 | TK | 4.5 | R | 6 | 13 | 5 | 6 | | | JON |
| 2001 05 31.28 | | B | 4.9 | TJ | 5.0 | B | | 8 | 7 | 7 | | | KEM01 |
| 2001 06 01.28 | | B | 4.9 | TJ | 5.0 | B | | 8 | 7 | 7 | | | KEM01 |
| 2001 06 01.77 | x | S | 5.3 | TK | 4.5 | R | 6 | 13 | 7 | 5 | | | JON |
| 2001 06 02.29 | | B | 4.8 | TJ | 5.0 | B | | 8 | 7 | 7 | | | KEM01 |
| 2001 06 02.77 | x | S | 5.0 | TK | 4.5 | R | 6 | 13 | 8 | 5 | | | JON |
| 2001 06 03.26 | | B | 4.7 | TJ | 5.0 | B | | 8 | 7 | 7 | | | KEM01 |
| 2001 06 03.77 | x | S | 4.7 | TK | 5.0 | B | | 7 | 4 | | | | JON |
| 2001 06 09.74 | | B | 4.4 | TJ | 5.0 | B | | 8 | 9 | 6 | | | KEM01 |
| 2001 06 10.74 | x | S | 5.0 | TK | 5.0 | B | | 7 | 8 | 2 | | | JON |
| 2001 06 11.73 | x | S | 3.8 | TK | 5.0 | B | | 7 | 10 | 2 | | | JON |
| 2001 06 12.75 | x | S | 3.3 | TK | 2.3 | B | | 2 | 13 | | | | JON |
| 2001 06 12.75 | x | S | 3.4 | TK | 5.0 | B | | 7 | 13 | 4 | | | JON |
| 2001 06 13.74 | | B | 4.3 | TJ | 5.0 | B | | 8 | 9 | 6 | | | KEM01 |
| 2001 06 17.76 | x | S | 4.6 | TK | 5.0 | B | | 7 | 9 | | | | JON |
| 2001 06 18.73 | x | S | 4.4 | TK | 5.0 | B | | 7 | 10 | 5 | | | JON |
| 2001 06 19.72 | | S | 4.2 | TJ | 5.0 | B | | 8 | 12 | 7 | | | KEM01 |
| 2001 06 19.74 | x | S | 4.0 | TK | 5.0 | B | | 7 | 12 | 5 | | | JON |
| 2001 06 21.10 | & | E | 3.9 | HS | 0.8 | E | | 1 | 15 | 1 | | | MOR09 |
| 2001 06 21.72 | | S | 4.3 | TJ | 5.0 | B | | 8 | 12 | 7 | | | KEM01 |
| 2001 06 23.71 | x | S | 4.3 | TK | 5.0 | B | | 7 | 15 | 5 | | | JON |
| 2001 06 24.72 | x | S | 4.3 | TK | 5.0 | B | | 7 | 16 | 5 | | | JON |
| 2001 06 25.75 | x | S | 4.4 | TK | 5.0 | B | | 7 | 20 | 4 | | | JON |
| 2001 06 26.34 | | S | 4.2 | AA | 3.5 | B | | 7 | 16 | | | | MOR03 |
| 2001 06 26.73 | | S | 4.4 | TJ | 5.0 | B | | 8 | 10 | 7 | | | KEM01 |
| 2001 06 26.75 | x | S | 4.3 | TK | 5.0 | B | | 7 | 16 | 4 | | | JON |
| 2001 06 28.06 | | S | 5.2: | HD | 6.0 | B | | 20 | & 5 | 5 | | | BAL03 |
| 2001 06 28.14 | | M | 4.1 | AA | 3.5 | B | | 7 | 20 | 6 | | | PRI04 |
| 2001 06 28.74 | | S | 4.9 | TJ | 5.0 | B | | 8 | 10 | 7 | | | KEM01 |
| 2001 06 29.05 | x | B | 4.5 | TJ | 5.0 | B | | 12 | | 5 | 0.15 | | SMY |
| 2001 06 29.11 | | M | 4.3 | AA | 5.0 | B | | 7 | 13 | 6 | 1.3 | 260 | BEG01 |
| 2001 06 29.14 | | M | 4.0 | AA | 0.0 | E | | 1 | | 6 | | | PRI04 |
| 2001 06 29.14 | | M | 4.0 | AA | 3.5 | B | | 7 | 20 | 6 | | | PRI04 |
| 2001 06 29.33 | | S | 4.1 | AA | 3.5 | B | | 7 | 15 | | | | MOR03 |
| 2001 06 30.10 | | M | 4.4 | AA | 0.0 | E | | 1 | 20 | 6 | | | BEG01 |
| 2001 06 30.11 | | M | 4.7 | AA | 5.0 | B | | 7 | 20 | 5 | 1.3 | 260 | BEG01 |
| 2001 06 30.14 | | M | 4.2 | AA | 0.0 | E | | 1 | | 6 | | | PRI04 |
| 2001 06 30.14 | | M | 4.2 | AA | 3.5 | B | | 7 | 15 | 6 | | | PRI04 |
| 2001 06 30.73 | x | S | 4.1 | TK | 5.0 | B | | 7 | 15 | 5 | | | JON |
| 2001 07 01.00 | x | B | 5.4 | TJ | 25 | L | 6 | 54 | 5 | 4 | | | SWI |
| 2001 07 01.01 | x | B | 4.4 | TJ | 3.0 | B | | 8 | &10 | 5 | | | ADA02 |
| 2001 07 01.02 | x | M | 4.2 | TJ | 5.0 | B | | 10 | 12 | 7 | 0.3 | 255 | GUZ |
| 2001 07 01.02 | | M | 4.8 | AA | 5.0 | B | | 10 | 15 | 4 | 1 | 225 | SAN07 |
| 2001 07 01.03 | x | B | 5.0: | TJ | 6.0 | B | | 20 | &10 | 5 | | | WLO |
| 2001 07 01.03 | | S | 4.6 | AA | 5.0 | B | | 7 | 40 | 5 | | | KOS |
| 2001 07 01.04 | x | B | 5.9 | TT | 6.6 | B | | 20 | &10 | 5 | | | FIL04 |
| 2001 07 01.07 | | M | 4.7 | AA | 0.0 | E | | 1 | 15 | 6 | | | PRI04 |
| 2001 07 01.07 | | M | 4.7 | AA | 3.5 | B | | 7 | 15 | 6 | | | PRI04 |
| 2001 07 01.08 | | M | 4.8 | AA | 25.0 | L | 8 | 45 | 14 | 7 | 30 | m | PRI04 |
| 2001 07 01.74 | x | S | 4.5 | TK | 5.0 | B | | 7 | 15 | 4 | | | JON |
| 2001 07 02.07 | | S | 4.5 | AA | 4.2 | B | | 7 | | 4/ | | | ZAN |
| 2001 07 02.08 | | S | 4.3 | AA | 0.0 | E | | 1 | | | | | ZAN |
| 2001 07 02.13 | | M | 5.0 | AA | 0.0 | E | | 1 | 25 | 6 | | | BEG01 |

Comet C/2001 A2 (LINEAR) [cont.]

| DATE (UT) | N | MM | MAG. | RF | AP. | T | F/ | PWR | COMA | DC | TAIL | PA | OBS. |
|---------------|----|----|------|----|------|---|----|-----|------|-----|-------|-----|-------|
| 2001 07 02.14 | | M | 4.7 | AA | 5.0 | B | | 7 | 25 | 5 | 1.5 | 260 | BEG01 |
| 2001 07 02.75 | x | S | 4.7 | TK | 5.0 | B | | 7 | 20 | 5 | | | JON |
| 2001 07 03.01 | | S | 5.1: | HD | 6.0 | B | | 20 | 10 | 6/ | | | BAL03 |
| 2001 07 03.13 | | M | 4.6 | AA | 0.0 | E | | 1 | | 6 | | | PRI04 |
| 2001 07 03.13 | | M | 4.6 | AA | 3.5 | B | | 7 | 14 | 6 | | | PRI04 |
| 2001 07 04.05 | | M | 4.8 | AA | 3.5 | B | | 7 | 15 | 6 | | | PRI04 |
| 2001 07 04.05 | | S | 4.9 | TT | 5.0 | B | | 7 | 9.4 | 4 | | | SHA02 |
| 2001 07 04.05 | | S | 5.8 | TT | 10 | B | | 14 | 7 | 5 | | | SHA02 |
| 2001 07 04.06 | | S | 5.0 | TT | 8.0 | B | | 20 | 8.9 | 5 | | | SHA02 |
| 2001 07 04.12 | | M | 4.7 | AA | 5.0 | B | | 7 | 20 | 7 | 1.2 | 260 | BEG01 |
| 2001 07 04.99 | | M | 4.5 | TT | 5.0 | B | | 10 | 16 | 4/ | | | LEH |
| 2001 07 05.03 | x | S | 5.2 | TT | 5 | R | 6 | 20 | & 6 | s5 | | | GRA09 |
| 2001 07 05.03 | x | S | 5.7 | TJ | 6.0 | B | | 20 | &12 | 1/ | | | SAD |
| 2001 07 05.33 | | S | 5.0 | AA | 3.5 | B | | 7 | 11 | 3 | | | MOR03 |
| 2001 07 05.92 | x | B | 4.8 | TT | 20 | L | 5 | 30 | 16 | D6 | &0.5 | 215 | POW01 |
| 2001 07 06.01 | x | B | 4.6 | TT | 5.0 | B | | 7 | 18 | D6 | &0.3 | 215 | POW01 |
| 2001 07 06.02 | x | B | 5.7: | TJ | 5.0 | B | | 7 | 9 | S3 | | | SPE01 |
| 2001 07 06.04 | x | B | 4.8 | TJ | 5.0 | B | | 12 | 15 | 4/ | | | SMY |
| 2001 07 06.14 | | M | 5.4 | AA | 3.5 | B | | 7 | 20 | 5 | | | PRI04 |
| 2001 07 06.33 | | S | 5.1 | AA | 3.5 | B | | 7 | 12 | 3 | | | MOR03 |
| 2001 07 06.94 | x | B | 4.7 | TT | 20 | L | 5 | 30 | 16 | D6 | &0.4 | 216 | POW01 |
| 2001 07 06.95 | x | B | 4.8 | TJ | 3.0 | B | | 8 | &10 | 4 | | | ADA02 |
| 2001 07 06.96 | x | B | 7.1 | TT | 6.6 | B | | 20 | &10 | 4 | | | FIL04 |
| 2001 07 06.96 | | M | 4.5 | TT | 5.0 | B | | 10 | 16 | 4 | | | LEH |
| 2001 07 06.98 | x | B | 5.9: | TJ | 25 | L | 5 | 47 | & 8 | s3 | | | BOH02 |
| 2001 07 06.98 | x | S | 5.0 | TJ | 25 | L | 6 | 54 | 5 | 5 | | | SWI |
| 2001 07 06.99 | x | M | 4.9 | TJ | 5.0 | B | | 10 | 16 | 6 | | | GUZ |
| 2001 07 07.00 | x | B | 4.7 | TT | 5.0 | B | | 7 | 15 | D6 | &0.3 | 215 | POW01 |
| 2001 07 07.00 | x | M | 5.4: | TJ | 5.0 | B | | 7 | 12 | S3 | | | SPE01 |
| 2001 07 07.03 | x | B | 5.2: | TJ | 6.0 | B | | 20 | &12 | 5/ | | | WLO |
| 2001 07 07.04 | x | O | 6.5: | AC | 5.0 | B | | 10 | &10 | 3/ | | | MAR12 |
| 2001 07 07.97 | x | M | 5.2 | TJ | 6.0 | B | | 20 | &10 | 2 | | | ADA02 |
| 2001 07 07.98 | | S | 5.0 | AA | 8.0 | B | | 20 | 12 | 6 | | | BAR |
| 2001 07 08.03 | x | S | 4.9 | TT | 5 | R | 6 | 20 | &10 | 5 | | | GRA09 |
| 2001 07 08.86 | | S | 5.4 | AA | 5.0 | B | | 7 | 14 | 3 | | | KOS |
| 2001 07 08.88 | | M | 5.0: | AA | 5.0 | B | | 10 | 15 | 3 | 0.5 | 220 | SAN07 |
| 2001 07 08.92 | x | M | 4.8 | TJ | 5.0 | B | | 10 | 12 | 6 | | | GUZ |
| 2001 07 09.00 | x | M | 4.8 | TJ | 6.0 | B | | 20 | &11 | 4 | | | ADA02 |
| 2001 07 09.05 | x& | O | 6.5 | AA | 5.0 | B | | 10 | & 8 | 3/ | | | MAR12 |
| 2001 07 09.95 | x | B | 6.2 | TJ | 8.0 | B | | 10 | 12 | 2 | | | SIK01 |
| 2001 07 10.02 | x | B | 5.2: | TJ | 6.0 | B | | 20 | &15 | 5/ | | | WLO |
| 2001 07 10.04 | x | B | 6.2 | TJ | 5.0 | B | | 12 | 15 | s4 | | | SMY |
| 2001 07 10.04 | x& | O | 6.8 | AA | 5.0 | B | | 10 | & 8 | 3/ | | | MAR12 |
| 2001 07 10.85 | x | S | 5.9 | TT | 15 | L | 6 | 45 | 6.5 | 5/ | | | KEZ |
| 2001 07 10.88 | | S | 4.8 | AA | 5.0 | B | | 7 | 25 | 3 | 2.6 | 245 | KOS |
| 2001 07 10.89 | x | B | 6.6 | TT | 5.0 | B | | 7 | 13 | D6/ | | | POW01 |
| 2001 07 10.89 | | S | 5.3: | HD | 6.0 | B | | 20 | 12 | 6/ | | | BAL03 |
| 2001 07 10.89 | x | S | 5.6 | TJ | 15.0 | L | 6 | 48 | 12 | 4 | 0.5 | 245 | GUZ |
| 2001 07 10.91 | x | B | 5.9 | TJ | 5.0 | B | | 7 | 12 | S5 | | | SPE01 |
| 2001 07 10.91 | x | B | 6.9 | TT | 6.0 | B | | 20 | & 7 | 3 | | | SCI |
| 2001 07 10.91 | x | B | 6.9 | TT | 20 | L | 5 | 30 | 14 | D6/ | | | POW01 |
| 2001 07 10.92 | x | B | 6.1 | TJ | 5.0 | B | | 10 | 15 | 3 | | | OSS |
| 2001 07 10.92 | | S | 5.8 | TJ | 6.0 | B | | 20 | 20 | 3 | | | RES |
| 2001 07 10.93 | | B | 5.1: | S | 5.0 | B | 4 | 7 | &10 | 4 | &0.17 | 230 | KOU |
| 2001 07 10.93 | | S | 5.2 | HS | 34.0 | L | 6 | 88 | 7 | 5 | 0.1 | 220 | TOT03 |
| 2001 07 10.94 | | S | 5.7 | TT | 8.0 | B | | 20 | 8.3 | 4 | | | SHA02 |
| 2001 07 10.95 | x | B | 6.2 | TT | 6.6 | B | | 20 | & 7 | 4/ | | | FIL04 |
| 2001 07 10.98 | | S | 5.6 | TT | 3.0 | B | | 8 | 12 | 3 | | | SHA02 |
| 2001 07 10.99 | x | S | 6.7 | TT | 21 | L | 8 | 52 | 5 | 4 | | | PAC03 |
| 2001 07 11.13 | | M | 5.9 | AA | 5.0 | B | | 7 | 20 | 4 | | | BEG01 |
| 2001 07 11.14 | | M | 6.3 | AA | 3.5 | B | | 7 | 25 | 4 | | | PRI04 |
| 2001 07 11.33 | | S | 5.7 | AA | 3.5 | B | | 7 | 12 | 3 | | | MOR03 |
| 2001 07 11.72 | x | S | 7.1 | TK | 4.5 | R | 6 | 13 | & 8 | 1 | | | JON |
| 2001 07 11.72 | x | S | 7.3 | TK | 7.8 | R | 8 | 30 | & 6 | 1 | | | JON |
| 2001 07 11.90 | | M | 5.3 | AA | 5.0 | B | | 10 | 18 | 4 | 1.5 | 235 | SAN07 |

Comet C/2001 A2 (LINEAR) [cont.]

| DATE (UT) | N | MM | MAG. | RF | AP. | T | F/ | PWR | COMA | DC | TAIL | PA | OBS. |
|---------------|----|----|------|----|------|---|----|-----|------|-----|-------|-----|-------|
| 2001 07 11.99 | | S | 5.5 | TJ | 6.0 | B | | 20 | 10 | 3 | | | RES |
| 2001 07 12.33 | | S | 5.6 | AA | 3.5 | B | | 7 | 16 | 3 | | | MOR03 |
| 2001 07 12.84 | xs | B | 4.8 | TJ | 6.8 | R | 12 | 40 | & 8 | D4 | &20 m | | CHR |
| 2001 07 12.86 | x | S | 4.9 | TT | 15 | L | 6 | 45 | 10 | 5 | &0.58 | 230 | KEZ |
| 2001 07 12.88 | | S | 5.0 | AA | 5.0 | B | | 7 | 15 | 4 | 2.1 | 240 | KOS |
| 2001 07 12.89 | x | M | 5.0: | TJ | 6.0 | B | | 20 | &16 | 4 | 0.5 | | ADA02 |
| 2001 07 12.90 | x | B | 6.5 | TT | 6.0 | B | | 20 | & 6 | 4 | | | SCI |
| 2001 07 12.90 | x& | S | 5.7 | AA | 5.0 | B | | 10 | 9 | s4 | | | MAR12 |
| 2001 07 12.91 | | B | 4.8 | S | 5.0 | B | 4 | 7 | >15 | 3/ | >0.33 | 220 | KOU |
| 2001 07 12.91 | x | B | 5.6 | TJ | 8.0 | B | | 10 | 14 | 4 | | | SIK01 |
| 2001 07 12.91 | x | E | 5.6 | S | 20.5 | L | 6 | 37 | &13 | s4 | | | KIS03 |
| 2001 07 12.91 | | S | 4.7 | TJ | 0.0 | E | | 1 | &25 | 3 | | | RES |
| 2001 07 12.91 | | S | 4.9 | TJ | 6.0 | B | | 20 | 20 | 5 | 0.5 | 125 | RES |
| 2001 07 12.92 | x | B | 5.6 | TT | 6.6 | B | | 20 | &15 | 5 | &0.4 | 230 | FIL04 |
| 2001 07 12.92 | x | S | 5.6 | AA | 4.0 | B | | 8 | 12 | s3/ | | | MAR13 |
| 2001 07 12.93 | x | B | 4.5 | TJ | 6.0 | B | | 20 | &20 | 6 | | | WLO |
| 2001 07 12.94 | x | B | 4.3 | TJ | 18 | L | 7 | 58 | &22 | 6 | &0.5 | | WLO |
| 2001 07 12.94 | | S | 5.4 | TT | 8.0 | B | | 20 | 13 | 5 | | | SHA02 |
| 2001 07 12.95 | x | B | 4.8 | TJ | 25 | L | 6 | 54 | 8 | 6 | &0.5 | | SWI |
| 2001 07 12.96 | x | B | 4.8 | TJ | 25.0 | L | 6 | 8 | 8 | 6 | 1.5 | | GUZ |
| 2001 07 12.96 | x | B | 6.3: | TJ | 12 | L | 7 | 50 | 9 | S7 | | | LEG |
| 2001 07 12.96 | | S | 5.3 | TT | 5.0 | B | | 7 | 16 | 6 | | | SHA02 |
| 2001 07 12.97 | x | S | 4.8 | TT | 21 | L | 8 | 52 | 11 | S5 | 0.42 | 233 | PAC03 |
| 2001 07 12.97 | | S | 4.9 | TT | 0.7 | E | | 1 | 16 | 7 | | | SHA02 |
| 2001 07 12.97 | | S | 5.1 | TT | 4.0 | B | | 2 | 16 | 7 | | | SHA02 |
| 2001 07 12.97 | x | S | 5.3 | S | 6.0 | B | | 20 | &15 | 3 | | | KID01 |
| 2001 07 12.98 | x& | B | 7.0 | S | 6.0 | B | | 20 | & 6 | D5 | | | BAL05 |
| 2001 07 12.99 | x | B | 5.3 | TT | 5.0 | B | | 20 | 10 | s6 | &0.47 | 233 | PAC03 |
| 2001 07 12.99 | x | M | 4.9 | TT | 4.0 | B | | 8 | 11 | s5 | | | GRA09 |
| 2001 07 13.02 | x | S | 4.5 | TJ | 6.0 | B | | 20 | 10 | 3 | | | PAR03 |
| 2001 07 13.33 | | S | 5.1 | AA | 3.5 | B | | 7 | 16 | 3 | | | MOR03 |
| 2001 07 13.84 | xs | B | 4.8 | TJ | 6.8 | R | 12 | 40 | & 8 | D4 | &20 m | | CHR |
| 2001 07 13.85 | x | M | 5.0: | TJ | 6.0 | B | | 20 | &15 | 4 | | | ADA02 |
| 2001 07 13.86 | x | M | 4.9 | TJ | 5.0 | B | | 10 | 10 | 5 | | | SWI |
| 2001 07 13.88 | x | B | 4.4 | TJ | 0.0 | E | | 1 | 15 | 7 | | | GUZ |
| 2001 07 13.90 | x | B | 5.3 | TT | 20 | L | 5 | 50 | 8.5 | D6 | | | POW01 |
| 2001 07 13.90 | x& | S | 5.0 | AA | 5.0 | B | | 20 | &12 | s4 | | | MAR12 |
| 2001 07 13.91 | | B | 4.9 | S | 5.0 | B | 4 | 7 | 20 | 3/ | 0.50 | 225 | KOU |
| 2001 07 13.91 | x | B | 5.0 | TT | 0.0 | E | | 1 | 8 | D6 | | | POW01 |
| 2001 07 13.91 | | M | 4.6 | TT | 0.8 | E | | 1 | 20 | 5 | | | LEH |
| 2001 07 13.92 | x | B | 5.1 | TT | 5.0 | B | | 7 | 9 | D6 | | | POW01 |
| 2001 07 13.93 | | S | 4.6 | TJ | 6.0 | B | | 20 | 22 | 6 | 2.2 | 225 | RES |
| 2001 07 13.93 | | S | 4.7 | TJ | 0.0 | E | | 20 | &20 | 5 | | | RES |
| 2001 07 13.94 | x | B | 4.9 | TJ | 5.0 | B | | 7 | 23 | S5 | | | SPE01 |
| 2001 07 13.94 | | M | 4.4 | TJ | 10.0 | B | | 20 | 25 | S7/ | 0.8 | 230 | MEY |
| 2001 07 13.94 | x | M | 4.7 | TJ | 5.0 | B | | 7 | 10 | 3 | | | PAR03 |
| 2001 07 13.96 | x | B | 4.6 | TJ | 6 | R | 10 | 30 | &15 | 5 | | | WLO |
| 2001 07 13.96 | x | B | 5.4 | TT | 5.0 | B | | 7 | &19 | 4 | | | FIL04 |
| 2001 07 13.96 | x | B | 6.2 | TT | 6.0 | B | | 20 | &11 | 5 | | | SCI |
| 2001 07 13.97 | x | S | 5.2 | S | 6.0 | B | | 20 | &13 | 3 | | | KID01 |
| 2001 07 14.00 | x | M | 5.1 | TJ | 8 | R | 7 | 35 | 11 | s6 | | | KWI |
| 2001 07 14.04 | x | B | 6.4 | TJ | 5.0 | B | | 12 | 10 | 4 | | | SMY |
| 2001 07 14.05 | | M | 5.8 | S | 6.0 | B | | 20 | 11 | 4 | | | KUB |
| 2001 07 14.13 | | M | 5.0 | AA | 0.0 | E | | 1 | | 5 | | | PRI04 |
| 2001 07 14.13 | | M | 5.0 | AA | 5.0 | B | | 10 | 16 | 6 | | | PRI04 |
| 2001 07 14.33 | | S | 5.1 | AA | 3.5 | B | | 7 | 18 | 3 | | | MOR03 |
| 2001 07 14.70 | x | S | 5.2 | TK | 5.0 | B | | 7 | &12 | 1 | | | JON |
| 2001 07 14.87 | x | B | 5.5 | TT | 5.0 | B | | 7 | 16 | D5/ | | | POW01 |
| 2001 07 14.88 | x | S | 4.7 | TJ | 0.0 | E | | 1 | 12 | 6 | | | GUZ |
| 2001 07 14.91 | x | B | 5.3 | TT | 5.0 | B | | 7 | &14 | 5 | | | FIL04 |
| 2001 07 14.91 | | S | 5.1 | AA | 5.0 | B | | 7 | 22 | 3 | 1.0 | 235 | KOS |
| 2001 07 14.91 | x | S | 5.3 | AA | 5.0 | B | | 10 | 13 | 3/ | | | MAR12 |
| 2001 07 14.92 | x | B | 4.8 | TT | 5.0 | B | | 7 | 18 | d5 | 0.53 | 218 | MAK02 |
| 2001 07 14.92 | x | B | 5.0 | TJ | 6 | R | 10 | 30 | &12 | 4 | | | WLO |
| 2001 07 14.93 | x | M | 5.0: | TJ | 3.0 | B | | 8 | &17 | 4 | 0.5 | | ADA02 |

Comet C/2001 A2 (LINEAR) [cont.]

| DATE (UT) | N | MM | MAG. | RF | AP. | T | F/ | PWR | COMA | DC | TAIL | PA | OBS. |
|---------------|----|----|------|----|------|---|----|-----|------|-----|-------|-----|-------|
| 2001 07 14.93 | | S | 5.0 | TJ | 0.0 | E | | 20 | &20 | 5 | | | RES |
| 2001 07 14.93 | | S | 5.1 | TJ | 6.0 | B | | 20 | 18 | 6 | 1.5 | 230 | RES |
| 2001 07 14.93 | | S | 5.8 | TT | 8.0 | B | | 20 | 11.9 | 4 | | | SHA02 |
| 2001 07 14.94 | x | B | 5.4 | S | 20.5 | L | 6 | 37 | 14 | s4/ | | | KIS03 |
| 2001 07 14.94 | x | I | 6.3 | TT | 0.0 | E | | 1 | | 9 | | | MAK02 |
| 2001 07 14.94 | | S | 5.3 | TT | 5.0 | B | | 7 | 19 | 5 | | | SHA02 |
| 2001 07 14.95 | x | B | 6.7 | TT | 6.0 | B | | 20 | & 7 | 3/ | | | SCI |
| 2001 07 14.95 | | M | 4.9 | TT | 0.8 | E | | 1 | 20 | 5 | | | LEH |
| 2001 07 14.95 | x | S | 5.5 | TJ | 8.0 | B | | 10 | &15 | S4/ | | | MAR13 |
| 2001 07 14.96 | | B | 5.2 | S | 5.0 | B | 4 | 7 | >15 | 3 | >0.50 | 235 | KOU |
| 2001 07 14.96 | x | B | 5.2 | TJ | 8.0 | B | | 10 | 17 | 3 | | | SIK01 |
| 2001 07 14.96 | x | B | 5.4 | TT | 21 | L | 8 | 52 | 8 | S5 | &0.33 | 233 | PAC03 |
| 2001 07 14.96 | x | S | 5.6 | TT | 15 | L | 6 | 45 | 12 | 6/ | &0.32 | 227 | KEZ |
| 2001 07 14.99 | x | B | 5.4 | TT | 5.0 | B | | 20 | 11 | s6 | &0.30 | 233 | PAC03 |
| 2001 07 15.00 | x | M | 7.6 | TJ | 12.0 | L | 7 | 50 | 7 | 3 | | | LEG |
| 2001 07 15.02 | x | B | 6.5 | TJ | 5.0 | B | | 12 | 10 | 3/ | | | SMY |
| 2001 07 15.03 | x | M | 4.9 | TJ | 5.0 | B | | 10 | 10 | 6 | | | GUZ |
| 2001 07 15.05 | x | B | 5.8 | TJ | 25 | L | 5 | 47 | 15 | d4 | 0.6 | 241 | BOH02 |
| 2001 07 15.12 | | M | 5.6 | AA | 5.0 | B | | 7 | 24 | 5 | 1.8 | 230 | BEG01 |
| 2001 07 15.14 | | M | 5.5 | AA | 5.0 | B | | 10 | 18 | 6 | | | PRI04 |
| 2001 07 15.87 | | B | 6.2 | AA | 20.0 | L | 8 | 83 | 5 | 4 | | | C0002 |
| 2001 07 15.87 | | S | 5.8 | AA | 5.0 | B | | 10 | 5 | 3 | | | C0002 |
| 2001 07 15.88 | x | B | 5.0 | TJ | 5.0 | B | | 10 | 10 | 7 | 1.0 | | GUZ |
| 2001 07 15.88 | x | B | 5.7 | TT | 5.0 | B | | 7 | 9 | D6 | | | POW01 |
| 2001 07 15.88 | x | B | 6.2 | TJ | 12.0 | R | 5 | 27 | 15 | 5 | | | SIE |
| 2001 07 15.89 | x | B | 5.6 | TJ | 5.0 | B | | 10 | 9 | 5 | &0.5 | | SWI |
| 2001 07 15.89 | | S | 5.3 | AA | 5.0 | B | | 7 | 20 | 3 | 0.7 | 233 | KOS |
| 2001 07 15.93 | x | B | 5.4 | TJ | 3.0 | B | | 8 | &10 | 4 | | | ADA02 |
| 2001 07 15.93 | | S | 5.7 | TT | 5.0 | B | | 7 | 13 | 5 | | | SHA02 |
| 2001 07 15.93 | | S | 5.8 | TT | 8.0 | B | | 20 | 11.9 | 4 | 0.9 | 230 | SHA02 |
| 2001 07 15.94 | x | S | 5.7 | TJ | 8.0 | B | | 10 | &16 | s5 | 0.5 | 225 | MAR13 |
| 2001 07 15.95 | x | B | 5.7 | S | 8.0 | B | | 10 | 17 | d5 | 1 | 200 | KIS03 |
| 2001 07 15.95 | x | B | 5.9 | TJ | 8.0 | B | | 10 | 17 | 2 | &1.4 | 220 | SIK01 |
| 2001 07 15.99 | x | S | 5.9: | TT | 15 | L | 6 | 45 | & 8 | 5 | | | KEZ |
| 2001 07 16.00 | | S | 5.0 | TJ | 8.0 | B | | 20 | 23 | 6 | | | ST003 |
| 2001 07 16.02 | | S | 5.0 | TT | 0.7 | E | | 1 | 15 | 6 | | | SHA02 |
| 2001 07 16.04 | x | B | 5.9 | TT | 5.0 | B | | 7 | &14 | 4 | | | FIL04 |
| 2001 07 16.07 | | S | 4.8 | AA | 8.0 | B | | 20 | 15 | 7 | | | BAR |
| 2001 07 16.11 | | M | 5.7 | AA | 5.0 | B | | 7 | 20 | 6 | 1.2 | 232 | BEG01 |
| 2001 07 16.14 | | M | 5.8 | AA | 5.0 | B | | 10 | 15 | 5 | | | PRI04 |
| 2001 07 16.33 | | S | 6.0 | AA | 3.5 | B | | 7 | 15.5 | 3 | | | MOR03 |
| 2001 07 16.84 | xs | B | 6.0 | TJ | 6.8 | R | 12 | 40 | & 6 | d3 | &15 m | | CHR |
| 2001 07 16.87 | x | M | 4.9 | TJ | 5.0 | B | | 10 | 8 | 6 | 1.0 | | GUZ |
| 2001 07 16.88 | x | B | 6.5 | TJ | 12.0 | R | 5 | 27 | 15 | 5 | | | SIE |
| 2001 07 16.89 | x | B | 5.7 | TT | 5.0 | B | | 7 | 9 | D6 | | | POW01 |
| 2001 07 16.89 | x | S | 5.7 | TJ | 5.0 | B | | 10 | &16 | s4/ | 0.30 | 227 | MAR13 |
| 2001 07 16.91 | x | S | 5.7 | AA | 5.0 | B | | 10 | 13 | s4 | | | MAR12 |
| 2001 07 16.92 | x | B | 6.0 | S | 20.5 | L | 6 | 37 | &13 | s5 | 0.5 | 220 | KIS03 |
| 2001 07 16.94 | | S | 5.9 | TT | 8.0 | B | | 20 | 10.2 | 4 | | | SHA02 |
| 2001 07 16.95 | | B | 6.1 | TJ | 5.0 | B | | 7 | 13 | 4 | | | CHE03 |
| 2001 07 16.95 | x | S | 6.0 | TT | 15 | L | 6 | 45 | 14 | 5 | &0.77 | 217 | KEZ |
| 2001 07 16.97 | x | B | 6.1 | TJ | 8.0 | B | | 10 | 21 | d3 | | | SIK01 |
| 2001 07 17.11 | | M | 6.0 | AA | 5.0 | B | | 7 | 8 | 5 | 45 m | 232 | BEG01 |
| 2001 07 17.14 | | M | 6.0 | AA | 5.0 | B | | 10 | 15 | 5 | | | PRI04 |
| 2001 07 17.86 | | S | 5.7 | AA | 5.0 | B | | 10 | | 3 | | | C0002 |
| 2001 07 17.89 | x | B | 5.4 | TJ | 5.0 | B | | 10 | 10 | 5 | 1.3 | | GUZ |
| 2001 07 17.89 | | M | 5.2 | AA | 5.0 | B | | 10 | 15 | 4/ | 3 | 225 | SAN07 |
| 2001 07 17.92 | | S | 5.6 | HD | 6.0 | B | | 20 | 10 | 6 | | | BAL03 |
| 2001 07 17.92 | | S | 6.0 | AA | 8.0 | B | | 20 | 10 | 4 | | | BAR |
| 2001 07 17.95 | | M | 6.5 | S | 6.0 | B | | 20 | 8 | 2 | | | KUB |
| 2001 07 18.00 | | S | 5.5 | AA | 5.0 | B | | 7 | 15 | 4 | 2.5 | 222 | KOS |
| 2001 07 18.12 | | M | 6.1 | AA | 5.0 | B | | 7 | 12 | 6 | 1.4 | 235 | BEG01 |
| 2001 07 18.14 | | M | 6.3 | AA | 5.0 | B | | 10 | 15 | 5 | | | PRI04 |
| 2001 07 18.21 | | S | 6.2 | AA | 3.5 | B | | 7 | 14 | 3 | | | MOR03 |
| 2001 07 18.83 | xs | B | 6.4 | TJ | 6.8 | R | 12 | 40 | & 6 | d3 | &15 m | | CHR |

Comet C/2001 A2 (LINEAR) [cont.]

| DATE (UT) | N | MM | MAG. | RF | AP. | T | F/ | PWR | COMA | DC | TAIL | PA | OBS. |
|---------------|---|----|------|----|------|---|----|-----|------|-----|-------|-----|-------|
| 2001 07 18.87 | x | M | 5.7 | TJ | 5.0 | B | | 10 | 8 | 5 | 1.5 | | GUZ |
| 2001 07 18.87 | | M | 6.2 | AA | 5.0 | B | | 7 | 8 | 5 | 1.2 | 235 | BEG01 |
| 2001 07 18.87 | | S | 5.6 | AA | 5.0 | B | | 7 | 15 | 4 | 2.4 | 220 | KOS |
| 2001 07 18.88 | x | B | 6.3 | TT | 5.0 | B | | 7 | &16 | 3/ | | | FIL04 |
| 2001 07 18.88 | x | M | 5.8 | TJ | 6.0 | B | | 20 | &11 | 4 | | | ADA02 |
| 2001 07 18.89 | x | B | 6.8 | TT | 6.6 | B | | 20 | &11 | 4/ | &0.33 | 230 | FIL04 |
| 2001 07 18.91 | x | M | 6.3 | TT | 4.0 | B | | 12 | 32 | 3 | 1.5 | 269 | LEG |
| 2001 07 18.91 | | S | 6.2 | TJ | 6.0 | B | | 20 | 17 | 4 | 1.2 | 230 | RES |
| 2001 07 18.91 | x | S | 6.2 | TT | 15 | L | 6 | 45 | 12.5 | 4 | &0.78 | 226 | KEZ |
| 2001 07 18.91 | x | S | 6.3 | S | 5.0 | B | 6 | 15 | 10 | d4 | | | KIS03 |
| 2001 07 18.91 | x | S | 6.4 | AA | 5.0 | B | | 10 | 13 | s3/ | | | MAR12 |
| 2001 07 18.91 | | S | 6.5 | TJ | 40.8 | L | 5 | 121 | 15 | 4 | 0.8 | 230 | RES |
| 2001 07 18.92 | x | S | 6.6 | TT | 6.0 | B | | 20 | &9 | 4 | &0.3 | 230 | SCI |
| 2001 07 18.93 | x | B | 5.5 | TJ | 18 | L | 7 | 58 | &14 | 3/ | | | WLO |
| 2001 07 18.94 | x | B | 5.6 | TJ | 8.0 | B | | 10 | &14 | d4 | &0.20 | 235 | MAR13 |
| 2001 07 18.94 | x | B | 5.9 | TT | 5.0 | B | | 7 | 17 | s4 | 0.51 | 221 | MAK02 |
| 2001 07 18.94 | x | B | 6.6 | TJ | 8.0 | B | | 10 | 20 | 4 | | | SIK01 |
| 2001 07 18.95 | x | B | 6.2 | TJ | 5.0 | B | | 7 | 14 | 3/ | | | BOH02 |
| 2001 07 18.95 | x | B | 6.5 | TI | 6.0 | B | | 20 | &10 | d4 | | | BAL05 |
| 2001 07 18.96 | | M | 6.5 | S | 6.0 | B | | 20 | 7.5 | 3 | | | KUB |
| 2001 07 19.02 | x | S | 5.7: | TJ | 3.5 | B | | 7 | &9 | | | | RZE |
| 2001 07 19.02 | x | S | 6.0 | TT | 4.0 | B | | 8 | 13 | 4/ | | | GRA09 |
| 2001 07 19.02 | | S | 6.4 | TJ | 5.0 | B | | 7 | 12.6 | 6 | | | ST003 |
| 2001 07 19.09 | | B | 6.3 | AA | 6.3 | B | 5 | 9 | 15 | 4 | | | NOW |
| 2001 07 19.14 | | M | 6.4 | AA | 5.0 | B | | 10 | 12 | 4 | | | PRI04 |
| 2001 07 19.86 | | S | 6.0 | AA | 5.0 | B | | 10 | 12 | 4 | | | C0002 |
| 2001 07 19.87 | x | B | 6.2 | TJ | 5.0 | B | | 10 | 10 | 4 | | | SWI |
| 2001 07 19.88 | x | B | 5.8 | TT | 5.0 | B | | 7 | 10 | D5 | | | POW01 |
| 2001 07 19.88 | | M | 6.5 | AA | 5.0 | B | | 7 | 12 | 4 | | | BEG01 |
| 2001 07 19.89 | | B | 6.3 | TJ | 5.0 | B | | 7 | 18 | 4 | | | CHE03 |
| 2001 07 19.89 | x | B | 7.2: | TJ | 6.0 | B | | 20 | &10 | 2/ | | | BAN01 |
| 2001 07 19.89 | x | M | 5.8 | TJ | 6.0 | B | | 20 | &11 | 4 | | | ADA02 |
| 2001 07 19.90 | x | B | 6.8 | TJ | 12.0 | R | 5 | 27 | 13 | 4 | 0.2 | 215 | SIE |
| 2001 07 19.92 | x | B | 5.5 | TJ | 6.0 | B | | 20 | &12 | 3 | | | WLO |
| 2001 07 19.92 | x | S | 5.8 | TJ | 5.0 | B | | 10 | 10 | 5 | | | GUZ |
| 2001 07 19.93 | | M | 6.3 | TJ | 10.0 | B | | 20 | 11 | 3/ | 0.3 | 220 | MEY |
| 2001 07 19.95 | | S | 5.7 | AA | 5.0 | B | | 7 | 13 | 4 | 0.7 | 220 | KOS |
| 2001 07 19.98 | | S | 6.4 | TJ | 6.0 | B | | 20 | 15 | 3 | 0.5 | 220 | RES |
| 2001 07 20.14 | | M | 6.3 | AA | 5.0 | B | | 10 | 12 | 4 | | | PRI04 |
| 2001 07 20.16 | | S | 6.5 | AA | 3.5 | B | | 7 | 11 | 3 | | | MOR03 |
| 2001 07 20.86 | | M | 6.7 | AA | 5.0 | B | | 7 | 15 | 3 | | | BEG01 |
| 2001 07 20.89 | x | B | 5.8 | TJ | 6.0 | B | | 20 | &13 | 3 | | | WLO |
| 2001 07 20.89 | x | B | 6.5 | TT | 5.0 | B | | 7 | 20.5 | d4/ | 0.42 | 189 | MAK02 |
| 2001 07 20.90 | x | B | 6.6 | TT | 5.0 | B | | 7 | &18 | 3/ | | | FIL04 |
| 2001 07 20.90 | x | S | 6.2 | TT | 15 | L | 6 | 45 | 10 | 3 | &0.82 | 215 | KEZ |
| 2001 07 20.91 | x | B | 6.9 | TT | 6.6 | B | | 20 | &14 | 4 | &0.6 | 225 | FIL04 |
| 2001 07 20.91 | x | B | 7.0 | TJ | 12.0 | R | 5 | 27 | 11 | 4 | | | SIE |
| 2001 07 20.91 | | S | 6.9 | AA | 8.0 | B | | 20 | 10 | 4 | | | BAR |
| 2001 07 20.92 | | B | 6.4 | TJ | 5.0 | B | | 7 | 18 | 4 | | | CHE03 |
| 2001 07 20.92 | x | B | 6.6 | TT | 6.0 | B | | 20 | &13 | 4 | &0.8 | 212 | SCI |
| 2001 07 20.93 | | S | 6.6 | AA | 8.0 | B | | 20 | 13 | 6 | | | BAR |
| 2001 07 20.96 | x | B | 6.3 | TJ | 5.0 | B | | 7 | 12 | 3/ | | | BOH02 |
| 2001 07 21.10 | | B | 6.7 | AA | 6.3 | B | 5 | 9 | 14 | 5 | | | NOW |
| 2001 07 21.86 | | M | 7.0 | AA | 5.0 | B | | 7 | 15 | 2 | | | BEG01 |
| 2001 07 21.87 | | S | 6.2 | AA | 4.2 | B | | 7 | 13 | 4 | | | ZAN |
| 2001 07 21.88 | | M | 5.8 | TT | 5.0 | B | | 10 | 15 | 4 | | | LEH |
| 2001 07 21.88 | | S | 6.4 | AA | 5.0 | B | | 10 | | 3 | | | C0002 |
| 2001 07 21.89 | | S | 6.7 | TJ | 6.0 | B | | 20 | 12 | 3/ | 0.2 | 230 | RES |
| 2001 07 21.91 | x | S | 6.2 | TJ | 6.0 | B | | 20 | 12 | 3 | | | KID01 |
| 2001 07 21.91 | | S | 6.8 | SC | 8.0 | B | | 20 | 10 | 5 | | | BAR |
| 2001 07 21.92 | | M | 6.2 | S | 6.0 | B | | 20 | 9 | 2 | | | KUB |
| 2001 07 21.94 | | B | 6.6 | TJ | 5.0 | B | | 7 | 15 | 4 | | | CHE03 |
| 2001 07 21.96 | | S | 5.9 | AA | 0.0 | E | | 1 | | | | | ZAN |
| 2001 07 21.98 | x | B | 7.5: | AA | 5.0 | B | | 10 | 8 | 2/ | | | MAR12 |
| 2001 07 22.13 | | M | 6.4 | AA | 5.0 | B | | 10 | 15 | 4 | | | PRI04 |

Comet C/2001 A2 (LINEAR) [cont.]

| DATE (UT) | N | MM | MAG. | RF | AP. | T | F/ | PWR | COMA | DC | TAIL | PA | OBS. |
|---------------|----|----|------|----|------|---|----|-----|-------|-----|------|-------|-------|
| 2001 07 22.45 | x | S | 7.2 | TK | 4.5 | R | 6 | 13 | 9 | 1 | | | JON |
| 2001 07 22.84 | | S | 5.8 | AA | 5.0 | B | | 7 | 12 | 3 | 0.5 | 217 | KOS |
| 2001 07 22.85 | | M | 6.9 | AA | 5.0 | B | | 7 | 15 | 3 | | | BEG01 |
| 2001 07 22.87 | | M | 5.7 | TT | 5.0 | B | | 10 | 18 | 3/ | | | LEH |
| 2001 07 22.87 | | S | 6.2 | AA | 4.2 | B | | 7 | 13 | 4 | 0.5 | 245 | ZAN |
| 2001 07 22.90 | | B | 6.6 | AA | 20.0 | L | 8 | 83 | | 4 | 33 | m 225 | C0002 |
| 2001 07 22.90 | | S | 6.4 | TJ | 6.0 | B | | 20 | 12 | 4 | | | RES |
| 2001 07 22.90 | | S | 6.5 | AA | 5.0 | B | | 10 | | 4/ | | | C0002 |
| 2001 07 22.90 | x | S | 7.1 | TJ | 6.0 | B | | 20 | 12 | 3 | | | KID01 |
| 2001 07 22.92 | x | B | 6.6 | TJ | 5.0 | B | | 7 | 14 | S3 | | | SPE01 |
| 2001 07 22.92 | | M | 6.5 | S | 6.0 | B | | 20 | 9 | 3 | | | KUB |
| 2001 07 22.92 | x | S | 6.0 | TJ | 5.0 | B | | 10 | 10 | 3 | | | GUZ |
| 2001 07 22.96 | | S | 5.9 | AA | 0.0 | E | | 1 | | | | | ZAN |
| 2001 07 23.01 | | S | 6.2 | HS | 34.0 | L | 6 | 83 | 12 | 4 | 0.33 | 220 | TOT03 |
| 2001 07 23.34 | | S | 6.8 | AA | 3.5 | B | | 7 | 9 | 3 | | | MOR03 |
| 2001 07 23.61 | | S | 6.5 | SC | 5.0 | B | | 7 | 15 | 6 | | | SOW |
| 2001 07 23.85 | | S | 5.9 | AA | 5.0 | B | | 7 | 12 | 3 | 0.5 | 216 | KOS |
| 2001 07 23.88 | | M | 6.7 | AA | 5.0 | B | | 7 | 10 | 3 | | | BEG01 |
| 2001 07 23.90 | | B | 6.6 | TT | 5.0 | B | | 10 | 13.3 | 3 | | | HAS02 |
| 2001 07 23.91 | | M | 6.9 | S | 6.0 | B | | 20 | 9 | 2 | | | KUB |
| 2001 07 23.92 | | M | 6.5 | TT | 8.0 | B | | 10 | 15 | 3 | | | HOR02 |
| 2001 07 23.93 | | S | 6.5 | TJ | 7.0 | B | | 15 | 20 | 0 | | | MER05 |
| 2001 07 24.00 | | S | 7.0 | TT | 8.0 | B | | 20 | 7.7 | 4 | | | SHA02 |
| 2001 07 24.04 | | S | 6.9 | TT | 5.0 | B | | 7 | 9 | 5 | | | SHA02 |
| 2001 07 24.83 | | S | 6.7 | AA | 5.0 | B | | 10 | | 2/ | | | C0002 |
| 2001 07 24.90 | | B | 6.7 | TT | 5.0 | B | | 10 | 13.3 | 4 | | | HAS02 |
| 2001 07 24.91 | | S | 6.8 | TJ | 6.0 | B | | 20 | 10 | 3 | | | RES |
| 2001 07 24.92 | | M | 6.5 | TT | 5.0 | B | | 10 | 15 | 3 | | | HOR02 |
| 2001 07 25.03 | | S | 6.9 | TT | 5.0 | B | | 7 | 9 | 5 | | | SHA02 |
| 2001 07 25.03 | | S | 6.9 | TT | 8.0 | B | | 20 | 7.8 | 4 | | | SHA02 |
| 2001 07 25.62 | | S | 6.7 | HS | 4.0 | B | | 7 | | | | | OOT |
| 2001 07 25.85 | x | S | 6.7 | TJ | 5.0 | B | | 10 | 8 | 4 | | | SWI |
| 2001 07 25.86 | x | S | 6.4 | TJ | 15.0 | L | 6 | 48 | 11 | 4 | 0.7 | | GUZ |
| 2001 07 25.88 | x | B | 6.0 | TJ | 6.0 | B | | 20 | &12 | 3 | | | WLO |
| 2001 07 25.88 | x | M | 6.5 | TJ | 5.0 | B | | 7 | 6 | 2 | | | PAR03 |
| 2001 07 25.89 | x | B | 7.4: | TJ | 4.0 | B | | 8 | &10 | d2/ | | | MAR13 |
| 2001 07 25.89 | | M | 6.0 | AA | 0.0 | E | | 1 | 15 | 5 | | | BEG01 |
| 2001 07 25.89 | | M | 6.2 | AA | 5.0 | B | | 7 | 20 | 5 | 80 | m 210 | BEG01 |
| 2001 07 25.89 | | M | 6.3 | AA | 5.0 | B | | 10 | 10 | s5 | 1.5 | 225 | SAN07 |
| 2001 07 25.91 | | S | 5.9 | AA | 5.0 | B | | 7 | 12 | 3 | 1.1 | 212 | KOS |
| 2001 07 25.91 | x | S | 7.2: | AA | 5.0 | B | | 10 | 10 | 2/ | | | MAR12 |
| 2001 07 25.96 | x | S | 6.9 | TT | 9 | L | | 50 | &14.5 | d4/ | 0.35 | 200 | MAK02 |
| 2001 07 26.00 | x | S | 6.8: | TJ | 6.0 | B | | 10 | | | | | RZE |
| 2001 07 26.01 | x | B | 8.2 | TJ | 12.0 | R | 5 | 27 | 10 | 4 | | | SIE |
| 2001 07 26.34 | | S | 6.6 | AA | 3.5 | B | | 7 | 12 | 3 | | | MOR03 |
| 2001 07 26.87 | x | B | 6.8 | TT | 20 | L | 5 | 50 | 4.5 | d3 | | | POW01 |
| 2001 07 26.88 | x& | S | 6.5 | TJ | 11 | L | 7 | 32 | 7 | d4/ | | | CH001 |
| 2001 07 26.89 | x | B | 6.6 | TT | 5.0 | B | | 7 | 5 | d3/ | | | POW01 |
| 2001 07 26.89 | x | B | 8.3 | TJ | 12.0 | R | 5 | 27 | 9 | 4 | | | SIE |
| 2001 07 26.89 | | S | 6.8 | TJ | 6.0 | B | | 20 | 12 | 3/ | | | RES |
| 2001 07 26.89 | | S | 6.9 | HS | 10.0 | L | 6 | 19 | 5 | 3 | | | CSU01 |
| 2001 07 26.95 | | S | 8.2 | TT | 20 | R | 14 | 40 | 4.8 | 4 | | | SHA02 |
| 2001 07 26.96 | | S | 7.0 | TT | 8.0 | B | | 20 | 8.3 | 3 | | | SHA02 |
| 2001 07 26.98 | x | S | 7.1 | TT | 5.0 | B | | 7 | &18 | d4 | | | MAK02 |
| 2001 07 27.63 | s | S | 7.1 | HD | 10.0 | R | | 16 | 14 | 3 | | | END |
| 2001 07 27.79 | x | S | 7.4 | S | 6.0 | B | | 20 | &10 | d4 | | | BAL05 |
| 2001 07 27.87 | | M | 7.2 | TT | 8.0 | B | | 10 | 12 | 3/ | | | HOR02 |
| 2001 07 27.89 | | M | 6.2 | AA | 5.0 | B | | 10 | 13 | s4 | 1 | 230 | SAN07 |
| 2001 07 27.90 | | S | 6.9 | TJ | 6.0 | B | | 20 | 10 | 3/ | | | RES |
| 2001 07 27.90 | x | S | 7.6 | TJ | 6.0 | B | | 20 | 9 | 2 | | | KID01 |
| 2001 07 27.92 | | M | 7.3 | S | 6.0 | B | | 20 | 6 | 3 | | | KUB |
| 2001 07 27.93 | x | B | 6.3 | TJ | 6.0 | B | | 20 | &10 | 3 | | | WLO |
| 2001 07 27.94 | x | S | 7.3 | TT | 15 | L | 6 | 45 | 6 | 1/ | | | KEZ |
| 2001 07 27.97 | x | B | 8.6 | TJ | 25 | L | 5 | 47 | 8 | d4 | 0.4 | 241 | BOH02 |
| 2001 07 27.97 | | S | 7.2 | TT | 10 | B | | 14 | 11.1 | 4 | 0.25 | 330 | SHA02 |

Comet C/2001 A2 (LINEAR) [cont.]

| DATE (UT) | N | MM | MAG. | RF | AP. | T | F/ | PWR | COMA | DC | TAIL | PA | OBS. |
|---------------|----|----|--------|----|------|---|----|-----|------|-----|-------|-------|-------|
| 2001 07 27.98 | | | S 7.1 | TT | 8.0 | B | | 20 | 10.7 | 5 | | | SHA02 |
| 2001 07 28.02 | x | | S 7.7 | TJ | 8.0 | B | | 20 | 12 | s2/ | | | SPE01 |
| 2001 07 28.14 | | | M 7.0 | AA | 5.0 | B | | 10 | | 2 | | | PRI04 |
| 2001 07 28.68 | | s | S 7.0: | HD | 7.6 | R | | 16 | &15 | 3 | | | END |
| 2001 07 28.68 | x | | S 7.0 | TJ | 5.0 | B | | 12 | 15 | 3 | | | NAG08 |
| 2001 07 28.81 | x | | S 7.6 | S | 6.0 | B | | 20 | &10 | d4 | | | BAL05 |
| 2001 07 28.84 | | | M 7.2 | AA | 5.0 | B | | 7 | 10 | 2 | | | BEG01 |
| 2001 07 28.87 | x | | S 6.6 | TJ | 5.0 | B | | 10 | 8 | 4 | | | GUZ |
| 2001 07 28.89 | | | S 7.3 | TJ | 6.0 | B | | 20 | 9 | 3 | | | RES |
| 2001 07 28.89 | x | | S 7.4 | TJ | 6.0 | B | | 20 | 11 | 2 | | | KID01 |
| 2001 07 28.90 | x | | B 6.5 | TJ | 6.0 | B | | 20 | &10 | 3 | | | WLO |
| 2001 07 28.91 | x | | B 8.0 | TJ | 5.0 | B | | 10 | 10 | 3 | | | OSS |
| 2001 07 28.91 | | | S 6.2 | AA | 5.0 | B | | 7 | 10 | 2 | | | KOS |
| 2001 07 28.91 | | | S 7.9 | S | 10 | B | | 25 | 8 | 2 | | | KUB |
| 2001 07 28.92 | x | | S 7.8 | TJ | 5.0 | B | | 10 | 6 | 2 | | | MAR12 |
| 2001 07 28.93 | x | | S 6.8 | TT | 5 | R | 6 | 20 | &15 | 3/ | | | GRA09 |
| 2001 07 28.93 | x | | S 7.3 | TT | 15 | L | 6 | 45 | 9 | 1 | &0.42 | 211 | KEZ |
| 2001 07 28.93 | x | | S 7.7: | TT | 6.7 | B | | 20 | & 6 | 2 | | | SCI |
| 2001 07 28.94 | | | B 7.3 | TJ | 5.0 | B | | 7 | 11 | 4 | | | CHE03 |
| 2001 07 28.94 | x | | B 7.8 | TT | 6.6 | B | | 20 | & 7 | 3/ | 0.13 | 200 | FIL04 |
| 2001 07 28.95 | x | | M 7.2 | TJ | 6.0 | B | | 20 | & 8 | 4 | | | ADA02 |
| 2001 07 28.96 | x | | B 7.8 | S | 20.5 | L | 6 | 37 | 9 | d2/ | | | KIS03 |
| 2001 07 28.96 | x | | M 6.8 | TJ | 8 | R | 7 | 35 | 9 | s4/ | | | KWI |
| 2001 07 28.97 | x | | S 7.6 | TJ | 8.0 | B | | 20 | 12 | s3 | | | SPE01 |
| 2001 07 28.99 | | | M 7.2 | TT | 8.0 | B | | 10 | 14 | 3/ | | | HOR02 |
| 2001 07 28.99 | x | | S 6.8 | TJ | 15.0 | L | 6 | 48 | 9 | 4/ | 0.5 | | GUZ |
| 2001 07 28.99 | x | | S 8.0 | TJ | 20.5 | L | 6 | 37 | & 9 | s2/ | | | MAR13 |
| 2001 07 28.99 | x | | S 9.1 | TT | 12.0 | L | 7 | 50 | 7 | 3 | 0.35 | 195 | LEG |
| 2001 07 29.01 | x | | B 8.2 | TJ | 12.0 | R | 5 | 27 | 10 | 4 | | | SIE |
| 2001 07 29.01 | x | | S 7.9 | TT | 21 | L | 8 | 52 | 6 | 4 | | | PAC03 |
| 2001 07 29.02 | x | | S 7.8 | TT | 5.0 | B | | 20 | 5 | 3 | | | PAC03 |
| 2001 07 29.09 | | | M 7.2 | AA | 5.0 | B | | 10 | 10 | 2 | | | PRI04 |
| 2001 07 29.82 | xs | | B 7.9 | TJ | 6.8 | R | 12 | 40 | & 5 | d3 | | | CHR |
| 2001 07 29.85 | x | | S 7.0 | TJ | 5.0 | B | | 10 | 8 | 3 | | | GUZ |
| 2001 07 29.85 | | | S 7.4 | AA | 5.0 | B | | 7 | 8 | 2 | | | BEG01 |
| 2001 07 29.86 | x | | S 6.9 | TT | 20 | L | 5 | 30 | 5 | d2/ | | | POW01 |
| 2001 07 29.87 | x | | M 7.3 | TJ | 6.0 | B | | 20 | & 8 | 3 | | | ADA02 |
| 2001 07 29.87 | x | | S 6.7 | TT | 5.0 | B | | 7 | 5 | d2/ | | | POW01 |
| 2001 07 29.88 | x | | S 6.7 | TT | 6.0 | B | | 20 | 5 | d2/ | | | POW01 |
| 2001 07 29.89 | | | S 7.5 | TJ | 6.0 | B | | 20 | 9 | 2/ | | | RES |
| 2001 07 29.89 | x& | | S 6.1 | TJ | 11 | L | 7 | 32 | 7 | d3 | | | CH001 |
| 2001 07 29.90 | x | | B 8.2 | TJ | 14.0 | R | 9 | 35 | 9 | 4 | | | SIE |
| 2001 07 29.92 | x | 0 | 8.0: | TJ | 25 | L | 5 | 50 | & 4 | d3 | | | SKR |
| 2001 07 29.92 | x | | S 8.6: | TT | 6.7 | B | | 20 | & 3 | 2 | | | SCI |
| 2001 07 29.94 | | | S 7.7 | TT | 33 | L | 5 | 45 | 5.0 | 3 | | | SHA02 |
| 2001 07 29.95 | | | B 7.8 | TJ | 5.0 | B | | 7 | 10 | 3 | | | CHE03 |
| 2001 07 29.95 | x | | M 7.3 | TJ | 8 | R | 7 | 35 | 7 | 4 | | | KWI |
| 2001 07 29.96 | x | | B 6.7 | TJ | 6.0 | B | | 20 | &10 | 3 | | | WLO |
| 2001 07 29.96 | | | S 7.2 | TT | 8.0 | B | | 20 | 10.9 | 3 | | | SHA02 |
| 2001 07 29.98 | x | | B 7.9 | S | 5.0 | B | | 15 | 9 | d2 | | | KIS03 |
| 2001 07 29.98 | x | | S 8.1 | TJ | 5.0 | B | | 15 | &10 | s2 | | | MAR13 |
| 2001 07 29.99 | | | S 6.8 | AA | 5.0 | B | | 7 | 10 | 2 | | | KOS |
| 2001 07 30.00 | | | S 6.9 | AA | 5.0 | B | | 20 | 10 | 3 | | | DIE02 |
| 2001 07 30.03 | | | M 6.6 | AA | 5.0 | B | | 10 | 12 | 3 | 50 | m 215 | SAN07 |
| 2001 07 30.05 | | | S 8.4 | S | 20.0 | L | 8 | 83 | 2.7 | 3 | | | C0002 |
| 2001 07 30.68 | x | | S 7.2 | TJ | 8.0 | B | | 11 | 14 | 3/ | | | NAG08 |
| 2001 07 30.84 | x | | S 7.5 | TJ | 5.0 | B | | 10 | 8 | 3 | | | GUZ |
| 2001 07 30.87 | x | | S 7.3 | TJ | 5.0 | B | | 10 | & 6 | | | | SWI |
| 2001 07 30.88 | | | M 7.0 | TT | 10 | B | 4 | 25 | 9 | 3/ | | | LEH |
| 2001 07 30.89 | x | | B 9.7: | TJ | 6.0 | B | | 20 | & 3 | 0/ | | | BAN01 |
| 2001 07 30.90 | x | | M 6.8 | TJ | 6.0 | B | | 20 | 5 | 3 | | | PAR03 |
| 2001 07 30.91 | x | | S 8.8: | TT | 6.7 | B | | 20 | & 3 | 2 | | | SCI |
| 2001 07 30.91 | x | | S 9.4 | TT | 12.0 | L | 7 | 50 | 9 | 2 | | | LEG |
| 2001 07 30.96 | x | | S 8.1 | TT | 9 | L | | 50 | & 9 | d3/ | | | MAK02 |
| 2001 07 30.97 | x | | B 8.3 | TJ | 5.0 | B | | 15 | & 8 | s2 | | | MAR13 |

Comet C/2001 A2 (LINEAR) [cont.]

| DATE (UT) | N | MM | MAG. | RF | AP. | T | F/ | PWR | COMA | DC | TAIL | PA | OBS. |
|---------------|----|----|------|----|------|---|----|-----|------|-----|------|-----|-------|
| 2001 07 30.98 | x | B | 7.0 | TJ | 6.0 | B | | 20 | & 8 | 3 | | | WLO |
| 2001 07 30.98 | x | S | 7.5 | TT | 15 | L | 6 | 45 | 7.5 | 1 | | | KEZ |
| 2001 07 30.98 | x | S | 8.0 | TJ | 5.0 | B | | 10 | 6 | 2/ | | | MAR12 |
| 2001 07 30.99 | x | S | 7.9 | S | 5.0 | B | | 15 | 9 | d2 | | | KIS03 |
| 2001 07 31.00 | | M | 7.3 | TT | 8.0 | B | | 10 | 13 | 3/ | | | HOR02 |
| 2001 07 31.00 | x | S | 6.7 | TT | 5.0 | B | | 10 | 10 | 1 | 0.5 | 203 | KEZ |
| 2001 07 31.02 | | B | 7.2 | S | 5.0 | B | 4 | 7 | 10 | 4 | 0.50 | 225 | KOU |
| 2001 07 31.02 | x | S | 7.6 | TJ | 8.0 | B | | 20 | 9 | d2 | | | SPE01 |
| 2001 07 31.28 | | S | 7.3 | AA | 3.5 | B | | 7 | 11 | 2 | | | MOR03 |
| 2001 07 31.80 | x | M | 7.2 | TT | 3.5 | B | | 7 | 10 | 2 | | | YOS02 |
| 2001 07 31.85 | x | S | 7.6 | TJ | 15.0 | L | 6 | 48 | 7 | 2 | | | GUZ |
| 2001 07 31.85 | x | S | 8.2 | TJ | 25 | L | 6 | 54 | 4 | 3 | | | SWI |
| 2001 07 31.88 | x | [| 9.3 | TJ | 6.0 | B | | 20 | | | | | BAN01 |
| 2001 07 31.94 | | S | 7.9 | TJ | 8.0 | B | | 20 | 4.0 | 3 | | | STO03 |
| 2001 07 31.97 | | S | 7.8 | TJ | 6.0 | B | | 20 | 6 | 2/ | | | RES |
| 2001 07 31.98 | | S | 7.6 | TT | 10 | B | | 14 | 8.3 | 3 | | | SHA02 |
| 2001 08 01.05 | | M | 7.2 | TT | 8.0 | B | | 10 | 12 | 3 | | | HOR02 |
| 2001 08 01.85 | x | B | 9.3: | TJ | 6.0 | B | | 20 | & 6 | 0 | | | BAN01 |
| 2001 08 01.85 | x | S | 7.6 | TJ | 15.0 | L | 6 | 81 | 9 | 2 | | | GUZ |
| 2001 08 01.88 | | S | 7.5 | TI | 5.0 | B | | 7 | 7 | 2/ | | | KYS |
| 2001 08 01.89 | x | S | 8.1 | TJ | 14 | L | 6 | 46 | & 5 | 2 | | | ADA02 |
| 2001 08 01.90 | | S | 7.6 | TT | 33 | L | 5 | 45 | 2.3 | 2 | | | SHA02 |
| 2001 08 01.90 | x | S | 8.6: | TT | 6.7 | B | | 20 | & 3 | 2 | | | SCI |
| 2001 08 01.91 | x | S | 8.3 | TT | 12.0 | L | 7 | 50 | 11 | 1 | | | LEG |
| 2001 08 01.92 | x | S | 8.2 | TT | 10.0 | B | | 25 | & 7 | 2/ | | | FIL04 |
| 2001 08 01.94 | x | S | 8.6: | TJ | 15.0 | L | 5 | 44 | 5 | d2 | | | SPE01 |
| 2001 08 01.95 | | S | 7.5: | TJ | 5.0 | B | | 7 | 8 | 3 | | | CHE03 |
| 2001 08 01.96 | | S | 7.6: | HV | 7.0 | B | | 10 | 7 | 2 | | | KOP |
| 2001 08 01.99 | | S | 7.9 | TJ | 6.0 | B | | 20 | 6 | 3 | | | RES |
| 2001 08 02.00 | | S | 7.2 | HV | 7.0 | R | 7 | 15 | 12 | 3 | | | GRA04 |
| 2001 08 02.01 | | K | 6.9 | HS | 8.0 | B | | 12 | 15 | 3 | | | BAR06 |
| 2001 08 02.01 | | M | 7.0 | HS | 8.0 | B | | 12 | 15 | 3 | | | BAR06 |
| 2001 08 02.03 | x | B | 7.9 | S | 5.0 | B | | 15 | 9 | s2 | | | KIS03 |
| 2001 08 02.03 | x | S | 7.7 | TT | 15 | L | 6 | 45 | 7 | 1 | | | KEZ |
| 2001 08 02.03 | x | S | 7.9 | TJ | 4.0 | B | | 10 | 9 | 2/ | | | MAR12 |
| 2001 08 02.04 | x | S | 8.3: | TJ | 5.0 | B | | 10 | & 8 | s2 | | | MAR13 |
| 2001 08 02.07 | | M | 7.4 | TJ | 15.6 | L | 5 | 24 | 9 | 4 | | | BOU |
| 2001 08 02.77 | x | S | 8.0 | TJ | 10.0 | B | | 20 | 8 | 2/ | | | NAG08 |
| 2001 08 02.83 | x | S | 7.7 | TJ | 15.0 | L | 6 | 48 | 7 | 1 | | | GUZ |
| 2001 08 02.85 | x | S | 7.6 | TT | 20 | L | 5 | 30 | 3 | d2 | | | POW01 |
| 2001 08 02.88 | x | [| 9.7 | TJ | 6.0 | B | | 20 | | | | | BAN01 |
| 2001 08 02.90 | x | S | 8.8: | TT | 6.7 | B | | 20 | & 3 | 1/ | | | SCI |
| 2001 08 02.92 | | M | 7.7 | TT | 10 | B | 4 | 25 | 4 | 3/ | | | LEH |
| 2001 08 02.93 | | S | 7.7 | TJ | 5.0 | B | | 7 | | 3 | | | CHE03 |
| 2001 08 03.02 | | S | 7.1: | HS | 8.0 | B | | 12 | 14 | 3 | | | BAR06 |
| 2001 08 04.95 | | S | 8.0: | TJ | 12.0 | R | 5 | 32 | 5 | 4 | | | CHE03 |
| 2001 08 05.83 | x | S | 9.7 | TT | 20 | L | 5 | 50 | 2.2 | d1/ | | | POW01 |
| 2001 08 05.84 | | M | 7.6 | TT | 8.0 | B | | 10 | 10 | 3 | | | HOR02 |
| 2001 08 05.85 | | M | 8.2 | TT | 10 | B | 4 | 25 | 7 | 3 | | | LEH |
| 2001 08 05.86 | | S | 7.1 | TI | 20.0 | T | 10 | 80 | 7 | 2 | | | CRE02 |
| 2001 08 05.90 | x | B | 7.5: | TJ | 15 | L | 6 | 45 | & 8 | 3/ | | | WLO |
| 2001 08 05.97 | | S | 8.1 | TJ | 6.0 | B | | 20 | 4 | 3 | | | RES |
| 2001 08 06.02 | x | S | 8.6: | TT | 15 | L | 6 | 45 | 6 | 1 | | | KEZ |
| 2001 08 06.78 | xs | S | 9.3 | TJ | 35 | L | 6 | 105 | & 3 | d2 | | | CHR |
| 2001 08 06.82 | | S | 7.4 | AA | 5.0 | B | | 7 | 6 | 1 | | | KOS |
| 2001 08 06.83 | | M | 7.7 | TT | 8.0 | B | | 10 | 11 | 3 | | | HOR02 |
| 2001 08 06.85 | x | S | 8.5 | TT | 15 | L | 6 | 45 | 5.5 | 1 | | | KEZ |
| 2001 08 06.86 | x | S | 9.5: | AA | 10 | M | 10 | 56 | 4 | 1 | | | MAR12 |
| 2001 08 06.89 | | S | 8.7 | TI | 10 | R | 5 | 25 | 3 | 2/ | | | MAR02 |
| 2001 08 06.90 | | M | 7.6 | HS | 8.0 | B | | 12 | 12 | 2/ | | | BAR06 |
| 2001 08 06.90 | x | S | 9.2: | TT | 6.7 | B | | 20 | & 2 | 1 | | | SCI |
| 2001 08 06.97 | | S | 7.6 | TJ | 7.0 | R | 7 | 15 | 9.5 | 1 | | | GRA04 |
| 2001 08 07.80 | xs | S | 9.4 | TJ | 35 | L | 6 | 105 | & 3 | d2 | | | CHR |
| 2001 08 07.82 | | S | 7.4 | AA | 5.0 | B | | 7 | 8 | 1 | | | KOS |
| 2001 08 07.82 | x | S | 8.3 | TJ | 5.0 | B | | 10 | 5 | 4 | | | GUZ |

Comet C/2001 A2 (LINEAR) [cont.]

| DATE (UT) | N | MM | MAG. | RF | AP. | T | F/ | PWR | COMA | DC | TAIL | PA | OBS. |
|---------------|----|----|------|----|------|---|----|-----|------|-----|------|-------|-------|
| 2001 08 07.82 | K | S | 7.6 | HS | 8.0 | B | | 12 | 15 | 2/ | | | BAR06 |
| 2001 08 07.83 | | M | 7.7 | TT | 8.0 | B | | 10 | 10 | 3 | | | HOR02 |
| 2001 08 07.87 | | B | 8.0 | TT | 5.0 | B | | 10 | 6.6 | 3 | | | HAS02 |
| 2001 08 07.87 | x | S | 8.4 | TT | 15 | L | 6 | 45 | 6.5 | 1/ | | | KEZ |
| 2001 08 07.90 | | S | 8.3 | TJ | 6.0 | B | | 20 | 3 | 3 | | | RES |
| 2001 08 07.95 | | S | 8.8 | TI | 10 | R | 5 | 25 | 4 | 2 | | | MAR02 |
| 2001 08 07.95 | | S | 8.1 | TJ | 20.3 | T | 10 | 62 | 7.5 | 2 | | | GRA04 |
| 2001 08 08.10 | | S | 9.6 | AC | 15 | R | 5 | 42 | 4.5 | 2 | | | MOR03 |
| 2001 08 08.42 | | S | 8.7 | AA | 10.0 | B | | 25 | | | | | SEA |
| 2001 08 08.47 | x | S | 8.4 | TJ | 32.0 | L | 5 | 58 | 7 | 3 | | | NAG08 |
| 2001 08 08.52 | | S | 8.9 | TJ | 20 | L | 7 | 45 | 4.0 | 3 | | | MAT08 |
| 2001 08 08.81 | x | S | 8.3 | TJ | 5.0 | B | | 10 | 5 | 3 | | | GUZ |
| 2001 08 08.81 | xs | S | 9.5 | TJ | 35 | L | 6 | 105 | & 2 | d2 | | | CHR |
| 2001 08 08.84 | | S | 7.6 | AA | 5.0 | B | | 7 | 4 | 0 | | | KOS |
| 2001 08 08.88 | | S | 8.0 | TK | 5.0 | B | | 7 | 5 | 3 | | | BIV |
| 2001 08 08.88 | | S | 8.7 | S | 20.0 | L | 8 | 83 | 2.0 | 2 | | | C0002 |
| 2001 08 08.89 | | M | 8.2 | S | 6.0 | B | | 20 | 10 | 1 | | | KUB |
| 2001 08 08.90 | | S | 8.8 | TT | 20.0 | L | 4 | 42 | 7 | 2/ | | | SCH04 |
| 2001 08 08.91 | | S | 8.8: | TK | 20.3 | L | 6 | 48 | 5 | 2 | 0.2 | 185 | BIV |
| 2001 08 09.80 | xs | S | 9.7 | TJ | 35 | L | 6 | 105 | & 2 | d2 | | | CHR |
| 2001 08 09.83 | x | S | 8.4 | TJ | 15.0 | L | 6 | 48 | 4 | 3 | | | GUZ |
| 2001 08 09.89 | x | S | 9.0: | TJ | 10 | M | 10 | 56 | 5 | 1 | | | MAR12 |
| 2001 08 09.90 | | S | 8.4 | TK | 25.6 | L | 5 | 42 | 6 | 2 | 0.15 | 180 | BIV |
| 2001 08 09.90 | | S | 8.5 | TJ | 6.0 | B | | 20 | 3 | 3 | | | RES |
| 2001 08 09.90 | x | S | 9.2 | TJ | 12.0 | R | 5 | 27 | 7 | 2 | | | SIE |
| 2001 08 09.91 | | S | 8.2 | TK | 5.0 | B | | 7 | 6 | 3 | | | BIV |
| 2001 08 09.92 | | S | 8.6: | TJ | 10 | B | | 14 | 7.4 | 2 | | | SHA02 |
| 2001 08 09.93 | x | S | 8.8 | TJ | 15 | L | 6 | 45 | 6 | 1/ | | | KEZ |
| 2001 08 10.50 | | S | 8.8 | AA | 10.0 | B | | 25 | 3 | 3 | | | SEA |
| 2001 08 10.82 | x | S | 8.6 | TJ | 15.0 | L | 6 | 48 | 4 | 3 | | | GUZ |
| 2001 08 10.85 | | M | 8.4 | TT | 10 | B | 4 | 25 | 6 | 3 | | | LEH |
| 2001 08 10.86 | | S | 8.2 | AA | 4.2 | B | | 7 | 8 | 1 | | | ZAN |
| 2001 08 10.89 | | S | 8.4 | TK | 25.6 | L | 5 | 42 | 6 | 3 | 0.1 | 180 | BIV |
| 2001 08 10.90 | | S | 8.3 | TJ | 8.0 | B | | 15 | 7.5 | 2 | | | BOU |
| 2001 08 10.90 | | S | 8.5 | TJ | 30.5 | T | 10 | 56 | 9 | 3 | | | COM |
| 2001 08 10.90 | | S | 8.6 | TJ | 6.0 | B | | 20 | 3 | 2/ | | | RES |
| 2001 08 10.91 | | S | 8.3 | TK | 5.0 | B | | 7 | 6 | 2 | | | BIV |
| 2001 08 11.11 | | S | 9.4 | AC | 15 | R | 5 | 42 | 4 | 2 | | | MOR03 |
| 2001 08 11.80 | | S | 8.8 | S | 20.0 | L | 8 | 83 | 2.5 | 1/ | | | C0002 |
| 2001 08 11.83 | | M | 7.9 | TT | 8.0 | B | | 10 | 11 | 2/ | | | HOR02 |
| 2001 08 11.83 | | M | 8.4 | TT | 10 | B | 4 | 25 | 7 | 3 | | | LEH |
| 2001 08 11.90 | | S | 8.8 | TT | 44.0 | L | 5 | 156 | 3.2 | 4 | | | HAS02 |
| 2001 08 11.91 | | B | 8.8 | TT | 10.0 | B | | 25 | 3.2 | 4 | | | HAS02 |
| 2001 08 11.92 | x | B | 8.4 | TJ | 15 | L | 6 | 45 | & 6 | 3 | | | WLO |
| 2001 08 11.92 | | S | 8.6 | TK | 25.6 | L | 5 | 42 | 5 | 2 | | | BIV |
| 2001 08 11.94 | | S | 8.4 | TK | 5.0 | B | | 7 | 6 | 2 | | | BIV |
| 2001 08 12.02 | x | S | 8.4 | TT | 21 | L | 8 | 52 | 4 | 3 | | | PAC03 |
| 2001 08 12.29 | | S | 8.3 | TK | 5.0 | B | | 10 | 6.0 | 2 | 6 | m 185 | LIN04 |
| 2001 08 12.61 | | S | 9.3 | TJ | 20 | L | 7 | 45 | 4.0 | 3 | | | MAT08 |
| 2001 08 12.61 | x | S | 9.1 | TJ | 32.0 | L | 5 | 58 | 6 | 3 | | | NAG08 |
| 2001 08 12.81 | | M | 7.9 | TT | 8.0 | B | | 10 | 10 | 2/ | | | HOR02 |
| 2001 08 12.82 | x | S | 10.0 | TT | 20 | L | 5 | 50 | 4.3 | d1/ | | | POW01 |
| 2001 08 12.83 | | M | 7.5 | HS | 5.0 | B | | 10 | 10 | 2 | | | SAN07 |
| 2001 08 12.83 | | M | 8.5 | TT | 10 | B | 4 | 25 | 7 | 3 | | | LEH |
| 2001 08 12.83 | x | S | 9.0: | TJ | 10 | M | 10 | 33 | 3 | 1 | | | MAR12 |
| 2001 08 12.83 | xs | S | 10.1 | TJ | 35 | L | 6 | 150 | & 2 | d1/ | | | CHR |
| 2001 08 12.84 | x | M | 9.5: | TJ | 31.7 | L | 5 | 78 | & 3 | 3 | | | ADA02 |
| 2001 08 12.85 | | M | 8.5 | S | 6.0 | B | | 20 | 6 | 1 | | | KUB |
| 2001 08 12.86 | | S | 8.1 | AA | 5.0 | B | | 7 | 4 | 1 | | | KOS |
| 2001 08 12.88 | x | S | 9.0 | TJ | 25 | L | 6 | 54 | 4 | 3 | | | SWI |
| 2001 08 12.90 | x | S | 8.9 | TT | 10.0 | B | | 25 | & 4 | 1/ | | | FIL04 |
| 2001 08 12.91 | x | S | 8.2 | TJ | 6.0 | B | | 20 | 4 | 3 | | | PAR03 |
| 2001 08 12.91 | x | S | 8.8 | S | 15 | L | 6 | 45 | 5.5 | 1 | | | KEZ |
| 2001 08 12.97 | x | S | 9.0 | TJ | 5.0 | B | | 10 | 3 | 2 | | | GUZ |
| 2001 08 13.08 | | S | 9.5 | AC | 15 | R | 5 | 42 | 4 | 3 | | | MOR03 |

Comet C/2001 A2 (LINEAR) [cont.]

| DATE (UT) | N | MM | MAG. | RF | AP. | T | F/ | PWR | COMA | DC | TAIL | PA | OBS. |
|---------------|----|----|-------|----|------|---|----|-----|------|-----|------|----|-------|
| 2001 08 13.58 | x | M | 9.3 | TT | 10.0 | B | | 26 | 5 | 3 | | | TSU02 |
| 2001 08 13.58 | x | S | 9.1 | TJ | 32.0 | L | 5 | 58 | 5 | 4 | | | NAG08 |
| 2001 08 13.87 | | S | 8.3 | AA | 5.0 | B | | 7 | 4 | 1 | | | KOS |
| 2001 08 13.87 | | S | 8.6 | TJ | 10.0 | B | | 20 | 6.5 | 2 | | | MEY |
| 2001 08 13.89 | | S | 9.2 | TT | 10 | B | | 14 | 6.1 | 2 | | | SHA02 |
| 2001 08 13.90 | | S | 8.5 | TJ | 30.5 | T | 10 | 75 | 3.7 | 3 | | | KAM01 |
| 2001 08 13.91 | x | S | 8.9 | TJ | 8 | R | 7 | 35 | 3 | 2 | | | KWI |
| 2001 08 13.96 | | S | 8.3 | AA | 15.0 | R | 8 | 30 | 6 | 3 | | | DIE02 |
| 2001 08 14.08 | | S | 9.7 | AC | 15 | R | 5 | 42 | 4 | 2 | | | MOR03 |
| 2001 08 14.42 | | S | 9.0 | AA | 10.0 | B | | 25 | | | | | SEA |
| 2001 08 14.49 | x | S | 9.2 | TT | 10.0 | B | | 20 | 4 | 3 | | | YOS02 |
| 2001 08 14.80 | xs | S | 10.4 | TJ | 35 | L | 6 | 105 | & 2 | d1/ | | | CHR |
| 2001 08 14.82 | | M | 7.7 | HS | 5.0 | B | | 10 | 10 | 1 | | | SAN07 |
| 2001 08 14.84 | | M | 8.9 | TT | 10 | B | 4 | 25 | 6 | 3 | | | LEH |
| 2001 08 14.86 | | M | 8.1 | TT | 8.0 | B | | 10 | 9 | 2/ | | | HOR02 |
| 2001 08 14.86 | | M | 8.7 | TT | 10 | B | | 25 | 6 | 3 | | | ZNO |
| 2001 08 14.87 | | S | 8.6 | TJ | 10.0 | B | | 20 | 6 | 2 | | | MEY |
| 2001 08 14.88 | | S | 8.9 | TJ | 41 | L | 5 | 121 | 4 | 2/ | | | RES |
| 2001 08 14.89 | x | S | 8.4 | TT | 4.0 | B | | 12 | 11 | 2 | | | LEG |
| 2001 08 14.89 | | S | 8.7 | TT | 33 | L | 5 | 45 | 4.9 | 1 | | | SHA02 |
| 2001 08 14.89 | | S | 9.0 | TK | 20.3 | L | 6 | 48 | 4.5 | 2 | | | BIV |
| 2001 08 14.89 | | S | 9.3 | TT | 20.0 | L | 4 | 42 | 6 | 1 | | | SCH04 |
| 2001 08 14.90 | | B | 9.0: | TK | 5.0 | B | | 7 | 6 | 2 | | | BIV |
| 2001 08 14.90 | | S | 8.7 | TJ | 15.6 | L | 5 | 24 | 6 | 2/ | | | BOU |
| 2001 08 14.90 | x | S | 8.8 | S | 15 | L | 6 | 45 | 5 | 1 | | | KEZ |
| 2001 08 14.90 | x | S | 9.2: | TJ | 15.0 | L | 5 | 75 | 4 | d1 | | | SPE01 |
| 2001 08 14.91 | | M | 8.8 | TJ | 15.6 | L | 5 | 24 | 5.5 | 2/ | | | DIJ |
| 2001 08 14.92 | | S | 8.3 | AA | 15.0 | R | 8 | 30 | 6 | 3 | | | DIE02 |
| 2001 08 14.92 | | S | 9.1 | TI | 21 | L | 6 | 55 | 3 | 2 | | | MAR02 |
| 2001 08 14.93 | x | B | 9.8 | TJ | 25 | L | 5 | 47 | 7 | 2/ | | | BOH02 |
| 2001 08 14.93 | | M | 8.4 | HS | 10.0 | L | 10 | 80 | 6 | 3 | | | SAN07 |
| 2001 08 14.93 | | S | 8.5 | HS | 34.0 | L | 6 | 83 | 4 | 3 | | | TOT03 |
| 2001 08 14.93 | x | S | 10.0: | TJ | 25 | T | 10 | 80 | 2 | 1 | | | MAR12 |
| 2001 08 14.94 | | S | 8.6 | TJ | 30.5 | T | 10 | 56 | 8 | 2/ | | | COM |
| 2001 08 14.95 | x | S | 8.5 | TJ | 10.0 | B | | 25 | 6 | 3 | | | WAL03 |
| 2001 08 14.96 | | S | 8.6 | AA | 5.0 | B | | 7 | 3 | 0 | | | KOS |
| 2001 08 15.34 | | S | 9.9 | AC | 15 | R | 5 | 42 | 3.5 | 2 | | | MOR03 |
| 2001 08 15.72 | x | S | 9.3 | TJ | 32.0 | L | 5 | 58 | 4 | 3 | | | NAG08 |
| 2001 08 15.82 | | M | 9.0 | TT | 10 | B | 4 | 25 | 5 | 3 | | | LEH |
| 2001 08 15.82 | xs | S | 10.4 | TJ | 35 | L | 6 | 105 | & 2 | d1/ | | | CHR |
| 2001 08 15.84 | x | S | 9.0: | TJ | 20.5 | L | 6 | 37 | & 4 | s1 | | | MAR13 |
| 2001 08 15.86 | x | S | 8.5: | TJ | 20 | L | 6 | 37 | 4 | 2 | | | MAR12 |
| 2001 08 15.86 | x | S | 10.1 | HS | 12.0 | L | 7 | 50 | 7 | 3 | | | LEG |
| 2001 08 15.87 | | S | 8.7 | TJ | 10.0 | B | | 20 | 8 | 2 | | | MEY |
| 2001 08 15.88 | | M | 8.9 | TT | 10 | B | | 25 | 6 | 2 | | | ZNO |
| 2001 08 15.88 | | S | 8.6 | A | 15.0 | R | 8 | 30 | 6 | 2 | | | DIE02 |
| 2001 08 15.88 | x | S | 9.5: | TJ | 6.0 | B | | 20 | & 5 | 1 | | | KID01 |
| 2001 08 15.89 | x | B | 9.9: | TJ | 25 | L | 5 | 47 | 7 | d2/ | | | BOH02 |
| 2001 08 15.89 | x | S | 9.2: | TJ | 15.0 | L | 5 | 44 | 4.4 | d1 | | | SPE01 |
| 2001 08 15.89 | x | S | 9.5 | TJ | 20 | L | 5 | 66 | 3 | 1 | | | KID01 |
| 2001 08 15.89 | x | S | 9.9 | TT | 21 | L | 8 | 52 | 3 | 3/ | | | PAC03 |
| 2001 08 15.90 | | S | 8.6 | HS | 25.4 | T | 6 | 64 | 6 | 2 | | | HOE |
| 2001 08 15.90 | | S | 8.7 | HS | 12 | L | 7 | 50 | 8 | 3 | | | PIL |
| 2001 08 15.91 | x | B | 8.8 | TJ | 18 | L | 7 | 58 | & 5 | 2/ | | | WLO |
| 2001 08 15.92 | x | S | 9.4 | TJ | 20.0 | L | 5 | 28 | 4 | 3 | | | GUZ |
| 2001 08 15.93 | x | S | 7.5 | TJ | 10.0 | B | | 25 | 11 | 3 | | | WAL03 |
| 2001 08 15.94 | x | S | 9.0 | TJ | 20.5 | L | 6 | 37 | 6 | s1/ | | | KIS03 |
| 2001 08 15.95 | | M | 8.3 | TT | 8.0 | B | | 10 | 10 | 2 | | | HOR02 |
| 2001 08 15.95 | | S | 8.7 | TJ | 41 | L | 5 | 121 | 6 | 2/ | | | RES |
| 2001 08 15.97 | x | S | 8.5 | TJ | 6.0 | B | | 20 | 4 | 2 | | | PAR03 |
| 2001 08 15.98 | | S | 7.9 | HS | 5.0 | B | | 10 | 8 | 0/ | | | SAN07 |
| 2001 08 15.99 | x | B | 10.4 | TT | 33.0 | L | 6 | 50 | & 5 | 1/ | | | FIL04 |
| 2001 08 16.00 | | M | 8.6 | HS | 10.0 | L | 10 | 80 | 6 | 1/ | | | SAN07 |
| 2001 08 16.18 | | S | 9.2: | TT | 25.4 | L | 4 | 44 | & 5 | 0/ | | | GRE |
| 2001 08 16.60 | | S | 9.3 | TJ | 25.4 | T | 6 | 32 | 7 | 1 | | | YOS04 |

Comet C/2001 A2 (LINEAR) [cont.]

| DATE (UT) | N | MM | MAG. | RF | AP. | T | F/ | PWR | COMA | DC | TAIL | PA | OBS. |
|---------------|----|----|-------|----|------|---|----|-----|-------|-----|------|----|-------|
| 2001 08 16.74 | | S | 8.6 | HS | 8.0 | B | | 12 | 11 | 2 | | | BAR06 |
| 2001 08 16.74 | | S | 8.8 | HS | 11 | L | 7 | 50 | 14 | 3 | | | BAR06 |
| 2001 08 16.82 | | M | 9.1 | TT | 10 | B | 4 | 25 | 6 | 3/ | | | LEH |
| 2001 08 16.82 | xS | S | 10.5 | TJ | 35 | L | 6 | 105 | & 2 | d1/ | | | CHR |
| 2001 08 16.85 | x | S | 9.5: | TJ | 14 | L | 6 | 46 | & 3 | 2 | | | ADAO2 |
| 2001 08 16.85 | x& | S | 9.7 | TJ | 11 | L | 7 | 32 | 7 | d0 | | | CH001 |
| 2001 08 16.86 | x | S | 9.2 | TJ | 15.0 | L | 6 | 48 | 4 | 3 | | | GUZ |
| 2001 08 16.86 | x | S | 9.5 | TJ | 21 | L | 6 | 37 | 3 | 2 | | | MAR12 |
| 2001 08 16.87 | x | S | 9.4: | TJ | 15.0 | L | 5 | 44 | 4.5 | d1 | | | SPE01 |
| 2001 08 16.88 | x | S | 9.2: | TJ | 20.5 | L | 6 | 68 | & 5 | s1/ | | | MAR13 |
| 2001 08 16.88 | | S | 9.3 | TJ | 41 | L | 5 | 121 | 5 | 2 | | | RES |
| 2001 08 16.88 | x | S | 9.5 | TJ | 25 | L | 6 | 54 | 4 | 2 | | | SWI |
| 2001 08 16.89 | | S | 9.1 | TK | 5.0 | B | | 7 | 6 | 1 | | | BIV |
| 2001 08 16.89 | | S | 9.1 | TK | 20.3 | L | 6 | 48 | 5 | 2 | | | BIV |
| 2001 08 16.90 | | S | 9.4 | TT | 20.0 | L | 4 | 42 | 7 | 2 | | | SCH04 |
| 2001 08 16.91 | x | S | 8.2 | TJ | 10.0 | B | | 25 | 8 | 2 | | | WAL03 |
| 2001 08 16.93 | x | B | 10.0 | TJ | 25 | L | 5 | 47 | 5 | 1/ | | | BOH02 |
| 2001 08 16.93 | | M | 8.4 | TT | 8.0 | B | | 10 | 9 | 2 | | | HOR02 |
| 2001 08 16.93 | | S | 9.4 | TT | 10 | B | | 14 | 8.1 | 1 | | | SHAO2 |
| 2001 08 16.93 | x | S | 10.5 | HS | 12.0 | L | 7 | 50 | 4 | 1 | | | LEG |
| 2001 08 16.95 | x | B | 9.1 | TJ | 20.5 | L | 6 | 56 | 5 | s1/ | | | KIS03 |
| 2001 08 16.95 | | S | 8.9 | TJ | 31.0 | J | 6 | 58 | 7 | 2/ | | | DIJ |
| 2001 08 16.95 | | S | 9.0 | TJ | 31.0 | J | 6 | 58 | 5.5 | 3/ | | | BOU |
| 2001 08 17.01 | x | S | 8.8 | TJ | 10.0 | M | 10 | 20 | 3 | 2 | | | PAR03 |
| 2001 08 17.75 | x | S | 9.4 | TJ | 32.0 | L | 5 | 58 | 4 | 2 | | | NAG08 |
| 2001 08 17.80 | xS | S | 10.7 | TJ | 35 | L | 6 | 105 | & 2 | d1 | | | CHR |
| 2001 08 17.84 | | S | 8.5 | TT | 8.0 | B | | 10 | 9 | 2 | | | HOR02 |
| 2001 08 17.86 | x | S | 9.3 | TJ | 15.0 | L | 6 | 81 | 4 | 3 | | | GUZ |
| 2001 08 17.89 | | S | 8.9 | AA | 5.0 | B | | 7 | 3 | 0 | | | KOS |
| 2001 08 17.89 | x | S | 10.3 | HS | 10.0 | B | | 25 | 5 | 1 | | | LEG |
| 2001 08 17.91 | | S | 9.3 | TT | 25.0 | L | 9 | 50 | 8 | 2 | | | SCH04 |
| 2001 08 17.92 | x | B | 10.3 | TJ | 25 | L | 5 | 47 | 3.3 | 2/ | | | BOH02 |
| 2001 08 17.93 | | S | 9.0 | HS | 11 | L | 7 | 50 | 12 | 2 | | | BAR06 |
| 2001 08 17.94 | | S | 8.9 | TJ | 31.0 | J | 6 | 46 | 6 | 3 | | | DIJ |
| 2001 08 17.94 | | S | 9.1 | TJ | 31.0 | J | 6 | 46 | 5.5 | 3 | | | BOU |
| 2001 08 17.99 | | S | 8.9 | TJ | 7.0 | R | 7 | 24 | 7 | 1 | | | GRA04 |
| 2001 08 17.99 | | S | 9.0 | TJ | 20.3 | T | 10 | 62 | 6 | 1/ | | | GRA04 |
| 2001 08 18.01 | | S | 9.3 | TK | 25.6 | L | 5 | 42 | 6 | 2 | | | BIV |
| 2001 08 18.02 | | S | 9.0 | TJ | 30.5 | T | 10 | 56 | & 7 | 2 | | | COM |
| 2001 08 18.03 | | S | 9.2 | TK | 5.0 | B | | 7 | 7 | 1 | | | BIV |
| 2001 08 18.04 | | S | 9.1 | NP | 7.0 | B | | 10 | 8 | 1 | | | MAR02 |
| 2001 08 18.08 | | S | 10.0 | AC | 15 | R | 5 | 42 | 4 | 2 | | | MOR03 |
| 2001 08 18.82 | x | B | 10.5: | TJ | 25 | L | 5 | 47 | 5 | 3 | | | BOH02 |
| 2001 08 18.82 | xS | S | 11.1 | TJ | 35 | L | 6 | 105 | & 1.5 | d1 | | | CHR |
| 2001 08 18.83 | | M | 9.5 | TT | 10 | B | 4 | 25 | 3.5 | 3 | | | LEH |
| 2001 08 18.83 | | S | 8.9 | TI | 12 | L | 7 | 50 | 8 | 2/ | | | PIL |
| 2001 08 18.83 | x | S | 9.4 | TJ | 10.0 | B | | 25 | 5 | 2 | | | WAL03 |
| 2001 08 18.85 | x | S | 10.3 | TT | 12.0 | L | 7 | 50 | 10 | 2 | | | LEG |
| 2001 08 18.86 | x | S | 9.5 | TJ | 15.0 | L | 6 | 48 | 4 | 2 | | | GUZ |
| 2001 08 18.86 | x | S | 10.0: | TJ | 20.5 | L | 6 | 75 | 2 | 1/ | | | MAR12 |
| 2001 08 18.88 | | S | 9.9 | TI | 10.0 | B | | 25 | 6 | 2/ | | | PIL |
| 2001 08 18.89 | | S | 8.6 | TT | 8.0 | B | | 10 | 9 | 1/ | | | HOR02 |
| 2001 08 18.92 | | S | 8.9 | NP | 10 | R | 5 | 25 | 10 | D2 | | | MAR02 |
| 2001 08 18.92 | x | S | 9.4: | TJ | 15 | L | 6 | 45 | & 3.5 | 1 | | | KEZ |
| 2001 08 18.94 | x | B | 10.5: | TI | 20.5 | L | 6 | 56 | & 4 | s1 | | | KIS03 |
| 2001 08 18.94 | | S | 9.3 | HS | 11 | L | 7 | 50 | 9 | 3 | | | BAR06 |
| 2001 08 18.95 | | S | 8.7 | TJ | 7.0 | R | 7 | 24 | 10 | 1/ | | | GRA04 |
| 2001 08 19.78 | xS | S | 11.3 | TJ | 35 | L | 6 | 105 | & 1.5 | d1 | | | CHR |
| 2001 08 19.80 | x | S | 10.2 | TT | 20 | L | 5 | 50 | 2.5 | d1 | | | POW01 |
| 2001 08 19.85 | | S | 10.9 | TI | 12 | L | 7 | 50 | 2.3 | 2 | | | PIL |
| 2001 08 19.86 | x | S | 8.9 | TJ | 10.0 | B | | 25 | 7 | 2/ | | | WAL03 |
| 2001 08 19.87 | | M | 9.5 | TT | 10 | B | | 25 | 4 | 2 | | | ZNO |
| 2001 08 19.87 | x | S | 9.8 | TT | 12.0 | L | 7 | 50 | 3 | 2 | | | LEG |
| 2001 08 19.89 | x& | S | 10.0 | TJ | 25 | L | 5 | 54 | 2 | d0 | | | CH001 |
| 2001 08 19.90 | | S | 8.8 | TT | 8.0 | B | | 10 | 8 | 1/ | | | HOR02 |

Comet C/2001 A2 (LINEAR) [cont.]

| DATE (UT) | N | MM | MAG. | RF | AP. | T | F/ | PWR | COMA | DC | TAIL | PA | OBS. |
|---------------|----|----|-------|----|------|---|----|-----|-------|-----|------|----|-------|
| 2001 08 19.91 | | S | 9.1 | NP | 10 | R | 5 | 25 | 10 | D3 | | | MAR02 |
| 2001 08 19.91 | | S | 9.4 | TT | 20.0 | L | 4 | 42 | 6 | 2 | | | SCH04 |
| 2001 08 19.92 | x | B | 10.0 | TJ | 25 | L | 5 | 47 | & 7 | 2/ | | | BOH02 |
| 2001 08 20.00 | x | S | 10.5 | TT | 30 | L | 4 | 96 | 4 | 2 | | | GRA09 |
| 2001 08 20.07 | | S | 9.4 | TJ | 25.4 | J | 6 | 47 | 5 | 2/ | | | BOU |
| 2001 08 20.82 | xs | S | 11.9 | TJ | 35 | L | 6 | 150 | & 1 | d1 | | | CHR |
| 2001 08 20.83 | | S | 10.2 | TT | 10.0 | B | | 25 | 1.5 | 3 | | | HAS02 |
| 2001 08 20.85 | x | S | 9.8 | TJ | 15.0 | L | 6 | 48 | 4 | 2 | | | GUZ |
| 2001 08 20.87 | | S | 10.2 | AC | 41 | L | 5 | 121 | 3.5 | 1 | | | RES |
| 2001 08 20.88 | x& | S | 10.5 | TJ | 25 | L | 5 | 54 | 1.5 | d0 | | | CH001 |
| 2001 08 20.90 | | S | 9.2 | NP | 10 | R | 5 | 25 | 7 | 2 | | | MAR02 |
| 2001 08 20.93 | | S | 9.3 | TJ | 30.5 | T | 10 | 56 | 6 | 2 | | | COM |
| 2001 08 20.95 | x | S | 9.4 | TJ | 10.0 | B | | 25 | 6 | 2 | | | WAL03 |
| 2001 08 20.96 | x | B | 10.1 | TJ | 25 | L | 5 | 47 | 6 | 2 | | | BOH02 |
| 2001 08 20.96 | x | S | 11.4 | HS | 12.0 | L | 7 | 50 | 3.2 | 2 | | | LEG |
| 2001 08 21.01 | | S | 10.6 | TT | 25 | L | 5 | 47 | 4.6 | 1 | | | PIL |
| 2001 08 21.83 | | S | 10.2 | AC | 41 | L | 5 | 121 | 3 | 1 | | | RES |
| 2001 08 21.90 | | S | 9.1 | NP | 10 | R | 5 | 25 | 7 | 1 | | | MAR02 |
| 2001 08 21.92 | x | B | 10.1: | TJ | 25 | L | 5 | 47 | 3.5 | 3 | | | BOH02 |
| 2001 08 21.93 | x | B | 9.2: | TJ | 18 | L | 7 | 58 | & 4 | 2 | | | WLO |
| 2001 08 22.55 | x | S | 9.6 | TT | 10.0 | B | | 20 | 3.5 | 1 | | | YOSO2 |
| 2001 08 22.70 | x | S | 9.8 | TJ | 32.0 | L | 5 | 58 | 3.6 | 2 | | | NAG08 |
| 2001 08 22.86 | x | S | 10.0 | TJ | 15.0 | L | 6 | 48 | 4 | 2 | | | GUZ |
| 2001 08 22.87 | x | S | 10.1 | TT | 10.0 | B | | 25 | & 5 | 1/ | | | FIL04 |
| 2001 08 22.89 | | S | 9.8 | TT | 12 | L | 7 | 50 | 4.6 | 3 | | | PIL |
| 2001 08 22.94 | | S | 9.3 | TI | 21 | L | 6 | 55 | 5 | 2 | | | MAR02 |
| 2001 08 22.94 | | S | 10.2 | AC | 41 | L | 5 | 121 | 3 | 1 | | | RES |
| 2001 08 22.97 | x | S | 10.4 | TT | 20.6 | L | 8 | 100 | 2.4 | 4 | | | PAC03 |
| 2001 08 23.58 | | S | [10.0 | TJ | 25.4 | T | 6 | 32 | ! 4 | | | | YOSO4 |
| 2001 08 23.85 | x | S | 9.6: | TJ | 25 | L | 5 | 66 | & 3 | 1 | | | KID01 |
| 2001 08 23.91 | x | B | 9.5: | TJ | 18 | L | 7 | 58 | & 3.5 | 2 | | | WLO |
| 2001 08 23.93 | x | S | 10.1 | TT | 30 | L | 4 | 47 | 5.5 | 2 | | | GRA09 |
| 2001 08 23.93 | | S | 10.5 | TJ | 41 | L | 5 | 121 | 2.5 | 1 | | | RES |
| 2001 08 23.96 | x | S | 10.3 | TJ | 25 | L | 5 | 47 | 3.5 | 1/ | | | BOH02 |
| 2001 08 23.97 | | M | 9.4 | TT | 10 | B | 4 | 25 | 3 | 3 | | | LEH |
| 2001 08 23.97 | x | S | 9.8 | TJ | 10.0 | B | | 25 | 4 | 1/ | | | WAL03 |
| 2001 08 23.99 | x& | S | 11.5 | TT | 11 | L | 8 | 46 | 2 | 1/ | | | POW01 |
| 2001 08 23.99 | x& | S | 11.5 | TT | 11 | L | 8 | 46 | 2 | 1/ | | | BURO4 |
| 2001 08 24.17 | | S | 12.2 | AC | 44.5 | L | 4 | 80 | 1.6 | 2 | | | MOR03 |
| 2001 08 24.80 | xs | S | 12.5 | TJ | 35 | L | 6 | 150 | & 0.5 | d0/ | | | CHR |
| 2001 08 24.83 | | M | 9.6 | TT | 10 | B | 4 | 25 | 2.5 | 3 | | | LEH |
| 2001 08 24.85 | x | S | 10.1 | TJ | 15.0 | L | 6 | 48 | 4 | 2 | | | GUZ |
| 2001 08 24.86 | x | S | 11.5: | TJ | 31.7 | L | 5 | 150 | & 1 | 3 | | | ADA02 |
| 2001 08 24.89 | x | S | 10.3 | TJ | 25 | L | 5 | 47 | 5 | 2 | | | BOH02 |
| 2001 08 24.91 | x | S | 9.8 | TJ | 15 | L | 6 | 45 | 3 | 2/ | | | KEZ |
| 2001 08 24.92 | | S | 9.8 | AC | 6.3 | R | 13 | 52 | 3 | 0 | | | KOS |
| 2001 08 24.92 | | S | 10.1 | TJ | 41 | L | 5 | 121 | 2.5 | 1 | | | RES |
| 2001 08 24.93 | | S | 10.1: | HS | 11 | L | 7 | 50 | 5 | 1 | | | BAR06 |
| 2001 08 24.96 | x | S | 9.3 | TJ | 10.0 | M | 10 | 20 | 3 | 2 | | | PAR03 |
| 2001 08 25.02 | | S | 10.2: | TK | 20.3 | L | 6 | 48 | 2.5 | 2 | | | BIV |
| 2001 08 25.06 | | S | 12.8 | AC | 44.5 | L | 4 | 167 | 1.0 | 2 | | | MOR03 |
| 2001 08 25.82 | xs | S | 12.7 | TJ | 35 | L | 6 | 150 | & 0.5 | d0/ | | | CHR |
| 2001 08 25.85 | | M | 10.1 | TT | 42 | L | 5 | 66 | 3 | 3 | | | LEH |
| 2001 08 25.85 | x | S | 10.6 | TJ | 15.0 | L | 6 | 81 | 3 | 3 | | | GUZ |
| 2001 08 25.87 | | S | 10.2 | TJ | 41 | L | 5 | 121 | 2.5 | 1 | | | RES |
| 2001 08 25.89 | x& | S | 11.0 | TJ | 25 | L | 5 | 54 | 1.5 | d0 | | | CH001 |
| 2001 08 25.90 | | S | 10.0 | AC | 6.3 | R | 13 | 52 | 3 | 0 | | | KOS |
| 2001 08 25.91 | | S | 10.8 | HS | 34.0 | L | 6 | 83 | 4 | 2 | | | TOT03 |
| 2001 08 25.93 | | M | 9.5 | TT | 35 | L | 5 | 68 | 3.5 | 2 | | | HOR02 |
| 2001 08 25.94 | x | S | 10.0: | TJ | 15 | L | 6 | 200 | & 2.5 | 1/ | | | KEZ |
| 2001 08 25.95 | | S | 11.0 | TT | 25.4 | T | 10 | 102 | 3 | 2/ | | | DES01 |
| 2001 08 25.96 | | S | 10.2: | HS | 11 | L | 7 | 50 | 5 | 1 | | | BAR06 |
| 2001 08 25.98 | | M | 10.4 | AA | 25 | L | 4 | 54 | 1.4 | 3 | | | SHU |
| 2001 08 26.02 | | S | 10.5 | TK | 20.3 | L | 6 | 48 | 2.5 | 2 | | | BIV |
| 2001 08 26.80 | | S | 12.2 | NP | 30 | L | 5 | 60 | 2 | 2 | | | NEV |

Comet C/2001 A2 (LINEAR) [cont.]

| DATE (UT) | N | MM | MAG. | RF | AP. | T | F/ | PWR | COMA | DC | TAIL | PA | OBS. |
|---------------|----|-------|-------|----|------|---|----|-----|-------|-----|------|----|-------|
| 2001 08 26.83 | | M | 10.4 | TT | 42 | L | 5 | 66 | 2.5 | 3 | | | LEH |
| 2001 08 26.85 | xs | S | 12.8 | TJ | 35 | L | 6 | 150 | & 0.5 | d0/ | | | CHR |
| 2001 08 26.86 | x | S | 11.2 | TJ | 15.0 | L | 6 | 81 | 3 | 2 | | | GUZ |
| 2001 08 26.87 | | S | 10.2 | TJ | 41 | L | 5 | 121 | 3 | 1 | | | RES |
| 2001 08 26.92 | x | B | 10.0: | TJ | 18 | L | 7 | 58 | & 3 | 2 | | | WLO |
| 2001 08 26.94 | x | S | 11.7 | TT | 20 | L | 5 | 50 | 2 | 1/ | | | POW01 |
| 2001 08 26.94 | x | S | 11.8 | TT | 20 | L | 5 | 50 | 2 | 1/ | | | BUR04 |
| 2001 08 26.96 | x | S | 10.3 | TJ | 25 | L | 6 | 54 | & 3 | 0 | | | SWI |
| 2001 08 26.96 | | S | 11.2 | HS | 34.0 | L | 6 | 120 | 2.5 | s4 | | | TOTO3 |
| 2001 08 27.01 | | M | 9.4 | TT | 35 | L | 5 | 68 | 4 | 2 | | | HOR02 |
| 2001 08 27.94 | x | B | 10.5: | TJ | 18 | L | 7 | 58 | & 2 | 2 | | | WLO |
| 2001 08 27.94 | | S | 9.9 | HS | 36 | L | 6 | 70 | 6 | 1 | | | BAR06 |
| 2001 08 27.96 | | S | 10.6 | AC | 41 | L | 5 | 121 | 3 | 0/ | | | RES |
| 2001 08 28.03 | | S | 10.4: | HS | 11 | L | 7 | 50 | 4 | 1 | | | BAR06 |
| 2001 08 28.04 | | S | 10.9 | TK | 20.3 | L | 6 | 48 | 2.5 | 1 | | | BIV |
| 2001 08 28.06 | | S | 10.8 | TT | 20 | T | 10 | 75 | 2.3 | 1 | | | SHA02 |
| 2001 08 28.07 | | S | 9.7 | TT | 8.0 | B | | 10 | 6 | 1/ | | | HOR02 |
| 2001 08 28.74 | x | S | [11.7 | HS | 25.4 | L | 4 | 46 | ! 2 | | | | YOS02 |
| 2001 08 29.03 | | S | 10.5: | HS | 11 | L | 7 | 50 | 4 | 1 | | | BAR06 |
| 2001 08 29.05 | | S | 10.2: | TJ | 31.0 | J | 6 | 58 | 3.7 | 2 | | | DIJ |
| 2001 08 29.05 | | S | 10.3: | TJ | 31.0 | J | 6 | 58 | & 3.5 | 1 | | | BOU |
| 2001 08 29.30 | | S | 10.8 | AC | 15 | R | 5 | 42 | 3 | 0 | | | MOR03 |
| 2001 08 29.94 | | M | 10.4 | TT | 42 | L | 5 | 66 | 2 | 3 | | | LEH |
| 2001 08 29.97 | | S | 11.0 | AC | 41 | L | 5 | 121 | 2.5 | 0/ | | | RES |
| 2001 08 29.99 | | S | 10.6 | AC | 6.3 | R | 13 | 52 | 2 | 0 | | | KOS |
| 2001 08 30.01 | | S | 9.9 | TT | 13 | L | 8 | 69 | 3 | 1/ | | | HOR02 |
| 2001 08 30.32 | | S | 12.7 | AC | 44.5 | L | 4 | 167 | 1.1 | 1 | | | MOR03 |
| 2001 08 30.83 | | M | 10.4 | TT | 42 | L | 5 | 66 | 2 | 3 | | | LEH |
| 2001 08 31.04 | | S | 11.3 | AC | 41 | L | 5 | 121 | 2 | 1 | | | RES |
| 2001 08 31.04 | x | S | [11.0 | TJ | 15.0 | L | 6 | 81 | ! 3 | | | | GUZ |
| 2001 09 01.83 | x | S | [12.5 | TJ | 31.7 | L | 5 | 150 | ! 1.5 | 5 | | | ADA02 |
| 2001 09 04.87 | | S | 11.3 | AC | 41 | L | 5 | 121 | 2 | 1 | | | RES |
| 2001 09 08.78 | | M | 12.0 | TI | 42 | L | 5 | 81 | 1.9 | 3 | | | LEH |
| 2001 09 08.84 | x | S | 11.2 | TT | 30 | L | 4 | 96 | & 3 | 0/ | | | GRA09 |
| 2001 09 08.85 | | S | 11.6 | TK | 25.6 | L | 5 | 42 | 2.0 | 1 | | | BIV |
| 2001 09 08.87 | | S | 11.7 | TK | 25.6 | L | 5 | 84 | 1.5 | 2 | | | BIV |
| 2001 09 08.88 | | S | 11.9 | AC | 41 | L | 5 | 121 | 2 | 0/ | | | RES |
| 2001 09 09.52 | | [12.0 | HS | 20 | L | 7 | | 45 | | | | | MAT08 |
| 2001 09 09.82 | x | [12.0 | TJ | 25 | L | 6 | | 108 | | | | | SWI |
| 2001 09 09.82 | xs | S | 13.5: | TJ | 35 | L | 6 | 150 | | d0 | | | CHR |
| 2001 09 11.54 | x | S | 11.7: | GA | 25.4 | L | 4 | 46 | 3 | 1/ | | | YOS02 |
| 2001 09 12.03 | | S | 12.8 | HS | 36 | L | 6 | 90 | 2 | 1 | | | BAR06 |
| 2001 09 14.44 | | [12.5 | HS | 30 | L | 6 | | 60 | | | | | MAT08 |
| 2001 09 14.85 | | S | 12.5: | AC | 31.0 | J | 6 | 89 | & 2.0 | 0/ | | | BOU |
| 2001 09 14.90 | | S | 12.0: | HS | 25.6 | L | 5 | 42 | 2.0 | 1 | | | BIV |
| 2001 09 14.91 | | S | 12.3 | HS | 25.6 | L | 5 | 84 | 1.5 | 2 | | | BIV |
| 2001 09 18.83 | | S | 11.5 | TK | 13 | L | 8 | 69 | 2.2 | 2/ | | | HOR02 |
| 2001 09 18.84 | | S | [12.0 | HS | 44.0 | L | 5 | 63 | | | | | HAS02 |
| 2001 09 18.94 | | S | 13.2 | AC | 41 | L | 5 | 121 | 1.2 | 0/ | | | RES |
| 2001 09 19.83 | | M | 12.4: | HS | 42 | L | 5 | 162 | 1.5 | 3 | | | LEH |
| 2001 09 19.90 | | S | 12.9: | AC | 41 | L | 5 | 121 | 1.5 | 0/ | | | RES |
| 2001 09 20.78 | | S | 11.7 | TK | 13 | L | 8 | 69 | 1.8 | 2 | | | HOR02 |
| 2001 09 21.82 | | S | 12.0 | HS | 20.3 | L | 6 | 95 | 1.3 | 2 | | | BIV |
| 2001 09 21.86 | | M | 12.7: | HS | 42 | L | 5 | 81 | 1.5 | 3 | | | LEH |
| 2001 09 21.86 | | S | 13.1 | AC | 41 | L | 5 | 121 | 1.2 | 0/ | | | RES |
| 2001 09 21.90 | | S | 12.5 | HS | 44.5 | T | 4 | 146 | 2.6 | 0 | | | SAR02 |
| 2001 09 21.92 | | S | 13.5 | HS | 36 | L | 6 | 90 | 1.5 | 1 | | | BAR06 |
| 2001 09 22.77 | | M | 12.4 | HS | 42 | L | 5 | 81 | 1.3 | 3 | | | LEH |
| 2001 10 06.75 | | S | 13.9: | AC | 41 | L | 5 | 121 | 1 | 0/ | | | RES |
| 2001 10 12.97 | | S | 12.8: | HS | 25.6 | L | 5 | 169 | 1.0 | 3 | | | BIV |
| 2001 14 10.86 | | S | 8.4 | AA | 4.2 | B | | 7 | 8 | 0 | | | ZAN |

Comet C/2001 K3 (Skiff)

| DATE (UT) | N | MM | MAG. | RF | AP. | T | F/ | PWR | COMA | DC | TAIL | PA | OBS. |
|---------------|---|----|------|----|------|---|----|-----|------|----|------|----|------|
| 2001 06 13.89 | | S | 14.4 | HS | 40.6 | L | 4 | 147 | 0.6 | 3 | | | BOU |
| 2001 07 12.94 | | S | 14.4 | AC | 40.8 | L | 5 | 262 | 0.6 | 3 | | | RES |

Comet C/2001 K5 (LINEAR)

| DATE (UT) | N | MM | MAG. | RF | AP. | T | F/ | PWR | COMA | DC | TAIL | PA | OBS. |
|---------------|---|----|------|----|------|---|----|-----|------|----|------|----|------|
| 2001 06 09.73 | | S | 14.5 | HS | 40.6 | L | 4 | 122 | 1.2 | 2/ | | | BOU |
| 2001 06 10.76 | | S | 14.5 | HS | 40.6 | L | 4 | 147 | 0.9 | 2/ | | | BOU |
| 2001 06 11.76 | | S | 14.7 | HS | 40.6 | L | 4 | 122 | 0.8 | 1/ | | | BOU |
| 2001 06 12.74 | | S | 14.8 | HS | 40.6 | L | 4 | 183 | 1.0 | 3 | | | BOU |
| 2001 06 13.73 | | S | 14.6 | HS | 40.6 | L | 4 | 122 | 1.0 | 2 | | | BOU |

Comet P/2001 MD7 (LINEAR)

| DATE (UT) | N | MM | MAG. | RF | AP. | T | F/ | PWR | COMA | DC | TAIL | PA | OBS. |
|---------------|---|----|-------|----|-----|---|----|-----|------|----|------|----|-------|
| 2001 09 09.53 | | | [13.0 | HS | 20 | L | 7 | 160 | | | | | MAT08 |
| 2001 09 16.48 | | | [13.5 | HS | 30 | L | 6 | 170 | | | | | MAT08 |
| 2001 10 07.50 | | | [14.0 | HS | 28 | L | 10 | 88 | | | | | MAT08 |
| 2001 10 08.54 | | | [14.0 | HS | 28 | L | 10 | 88 | | | | | MAT08 |
| 2001 10 14.47 | | S | 14.2 | HS | 28 | L | 10 | 88 | 0.7 | 4/ | | | MAT08 |
| 2001 10 16.53 | | S | 14.1 | HS | 28 | L | 10 | 88 | 0.6 | 5 | | | MAT08 |

Comet P/2001 Q2 (Petriew)

| DATE (UT) | N | MM | MAG. | RF | AP. | T | F/ | PWR | COMA | DC | TAIL | PA | OBS. |
|---------------|----|----|-------|----|------|---|----|-----|-------|-----|------|----|-------|
| 2001 08 20.05 | | S | 10.7 | TJ | 41 | L | 5 | 121 | 2 | 3 | | | RES |
| 2001 08 20.09 | | S | 10.4 | TJ | 25.4 | J | 6 | 58 | 2.4 | 3/ | | | BOU |
| 2001 08 21.07 | | S | 10.4 | TJ | 31.0 | J | 6 | 72 | & 2 | 4 | | | DIJ |
| 2001 08 21.07 | | S | 10.5: | TJ | 31.0 | J | 6 | 72 | & 2.5 | 4 | | | BOU |
| 2001 08 21.08 | x | B | 10.3 | TJ | 25 | L | 7 | 50 | 2.3 | 2 | | | BOH02 |
| 2001 08 21.77 | xs | S | 9.8 | TT | 25.4 | L | 4 | 46 | 2.3 | 4 | | | YOSO2 |
| 2001 08 22.72 | xs | S | 9.5 | TJ | 32.0 | L | 5 | 58 | 2.1 | 6 | | | NAG08 |
| 2001 08 22.79 | x | S | 10.3 | TJ | 15.0 | B | | 25 | 2.2 | 3 | | | HAS08 |
| 2001 08 23.04 | | S | 10.7 | AC | 41 | L | 5 | 121 | 3 | 3 | | | RES |
| 2001 08 23.08 | | S | 10.2 | HS | 25.4 | T | 6 | 105 | 2 | 3/ | | | HOE |
| 2001 08 23.09 | x | S | 10.6: | TT | 30 | L | 4 | 96 | 1.5 | 3 | | | GRA09 |
| 2001 08 23.74 | x | M | 9.6 | TT | 25.0 | L | 6 | 47 | 2.0 | 3 | | | TSU02 |
| 2001 08 23.83 | | S | 10.7 | TJ | 20 | L | 7 | 45 | 2.0 | 3 | | | MAT08 |
| 2001 08 23.98 | x | B | 10.5: | TI | 20.5 | L | 6 | 56 | & 2 | d3 | | | KIS03 |
| 2001 08 23.98 | x | S | 11.0 | TT | 20 | L | 5 | 50 | 1.5 | 4 | | | POW01 |
| 2001 08 23.98 | x | S | 11.0 | TT | 20 | L | 5 | 50 | 1.5 | 4 | | | BURO4 |
| 2001 08 24.02 | x | B | 10.6 | TJ | 20.6 | L | 6 | 52 | & 2 | d2/ | | | MAR13 |
| 2001 08 24.04 | x | S | 10.1 | TT | 20.6 | L | 8 | 100 | 2.4 | 3/ | | | PAC03 |
| 2001 08 24.08 | | S | 9.9 | TJ | 10.0 | B | | 37 | 4.5 | 3 | | | MEY |
| 2001 08 24.08 | x | S | 10.2 | TT | 30 | L | 4 | 47 | 2.5 | 3/ | | | GRA09 |
| 2001 08 24.09 | | M | 9.8 | TT | 10 | B | 4 | 25 | 2 | 3 | | | LEH |
| 2001 08 25.06 | | M | 9.7 | TT | 10 | B | 4 | 25 | 2.5 | 3 | | | LEH |
| 2001 08 25.07 | x | B | 10.4 | TJ | 25 | L | 7 | 50 | 2.4 | 2 | | | BOH02 |
| 2001 08 25.07 | | B | 10.7 | TT | 10.0 | B | | 25 | 1.5 | 4 | | | HAS02 |
| 2001 08 25.07 | x | S | 10.8: | TJ | 31.7 | L | 5 | 78 | & 0.9 | 4 | | | ADA02 |
| 2001 08 25.08 | x | S | 10.6: | TT | 15 | L | 5 | 60 | 2 | 2 | | | DUS |
| 2001 08 26.00 | | M | 9.8 | AA | 25 | L | 4 | 54 | 1.3 | 4 | | | SHU |
| 2001 08 26.07 | | M | 9.4 | TT | 8.0 | B | | 10 | 6 | 3/ | | | HOR02 |
| 2001 08 26.08 | | M | 9.7 | TT | 10 | B | 4 | 25 | 2.5 | 3 | | | LEH |
| 2001 08 26.08 | | S | 10.8 | HS | 20.0 | T | 10 | 80 | 1.5 | 3 | | | SER02 |
| 2001 08 26.09 | | S | 9.9 | TK | 20.3 | L | 6 | 48 | 2 | 4 | | | BIV |
| 2001 08 26.97 | | M | 10.1 | PA | 30 | L | 5 | 60 | 3 | 4 | | | NEV |
| 2001 08 27.02 | | S | 10.5 | HS | 34.0 | L | 6 | 83 | 3 | 2 | | | TOT03 |
| 2001 08 27.02 | x | S | 10.6 | TT | 11 | L | 7 | 46 | 1.8 | 4 | | | POW01 |
| 2001 08 27.02 | x | S | 10.6 | TT | 11 | L | 7 | 46 | 1.8 | 4 | | | BURO4 |
| 2001 08 27.07 | | M | 9.7 | TT | 10 | B | 4 | 25 | 2 | 3 | | | LEH |
| 2001 08 27.09 | | M | 9.4 | TT | 35 | L | 5 | 68 | 3.8 | 3 | | | HOR02 |
| 2001 08 28.07 | | S | 10.2 | AC | 41 | L | 5 | 121 | 2.5 | 3 | | | RES |
| 2001 08 28.09 | | M | 9.2 | TT | 8.0 | B | | 10 | 5.5 | 3 | | | HOR02 |
| 2001 08 28.12 | | S | 10.1 | TJ | 20 | T | 10 | 75 | 1.6 | 3 | | | SHA02 |

Comet P/2001 Q2 (Petriew) [cont.]

| DATE (UT) | N | MM | MAG. | RF | AP. | T | F/ | PWR | COMA | DC | TAIL | PA | OBS. |
|---------------|---|----|-------|----|------|---|----|-----|-------|----|------|-----|-------|
| 2001 08 28.13 | | S | 9.3 | TJ | 10 | B | | 14 | 4.7 | 3 | | | SHAO2 |
| 2001 08 28.13 | | S | 10.6 | TK | 20.3 | L | 6 | 48 | 1.7 | 4 | | | BIV |
| 2001 08 28.78 | x | S | 9.7 | TJ | 15.0 | B | | 25 | 2.5 | 3 | | | HAS08 |
| 2001 08 28.80 | x | S | 10.0 | TT | 25.4 | L | 4 | 46 | 2.8 | 3 | | | YOSO2 |
| 2001 08 28.81 | x | S | 9.9 | TT | 10.0 | B | | 20 | 3 | 2 | | | YOSO2 |
| 2001 08 29.10 | | S | 10.1 | AC | 30.5 | T | 10 | 56 | 3 | 3 | | | COM |
| 2001 08 29.10 | | S | 10.2 | TJ | 25.4 | L | 5 | 65 | 2.0 | 3/ | | | MEY |
| 2001 08 29.10 | | S | 10.2 | TJ | 31.0 | J | 6 | 72 | 2.8 | 3/ | | | DIJ |
| 2001 08 29.10 | | S | 10.4 | TJ | 31.0 | J | 6 | 72 | 2.6 | 3/ | | | BOU |
| 2001 08 29.11 | | S | 10.4 | TK | 20.3 | L | 6 | 48 | 2.0 | 4 | | | BIV |
| 2001 08 29.12 | | S | 9.5 | TJ | 20 | T | 10 | 75 | 2.8 | 3 | | | SHAO2 |
| 2001 08 29.15 | | S | 9.5: | TJ | 10 | B | | 14 | 4.7 | 3 | | | SHAO2 |
| 2001 08 30.04 | | M | 9.8 | TT | 10 | B | 4 | 25 | 2.8 | 3/ | | | LEH |
| 2001 08 30.05 | x | S | 10.7 | TT | 15 | L | 5 | 32 | 2 | 4 | | | DUS |
| 2001 08 30.08 | | M | 10.1 | TT | 13 | L | 8 | 69 | 3.3 | 3/ | | | HOR02 |
| 2001 08 30.10 | | S | 9.6 | AC | 41 | L | 5 | 121 | 3 | 3/ | | | RES |
| 2001 08 31.05 | x | S | 10.7 | TT | 11 | L | 7 | 32 | 1.8 | 3/ | | | BUR04 |
| 2001 08 31.06 | | S | 9.7 | AC | 41 | L | 5 | 121 | 2.5 | 3/ | | | RES |
| 2001 08 31.08 | | M | 9.7 | TT | 10 | B | 4 | 25 | 3 | 3 | | | LEH |
| 2001 08 31.08 | x | S | 11.0: | TJ | 31.7 | L | 5 | 78 | & 1.3 | 3 | | | ADA02 |
| 2001 09 01.11 | | S | 10.5 | TJ | 25.4 | J | 6 | 88 | 2.2 | 3/ | | | BOU |
| 2001 09 01.15 | | S | 10.7 | TK | 25.6 | L | 5 | 42 | 1.5 | 4 | | | BIV |
| 2001 09 05.79 | | S | 10.2 | GA | 25.4 | L | | 71 | 2 | | | | SEA |
| 2001 09 12.77 | | S | 8.9: | TJ | 25.4 | T | 6 | 116 | 2.1 | 4 | | | YOSO4 |
| 2001 09 14.07 | | S | 9.7 | HS | 36 | L | 6 | 70 | 3.4 | 3 | | | BAR06 |
| 2001 09 15.12 | | S | 10.1 | TK | 25.6 | L | 5 | 42 | 2.5 | 4 | 0.03 | 300 | BIV |
| 2001 09 16.18 | | S | 10.4 | TK | 25.6 | L | 5 | 42 | 2.0 | 5 | | | BIV |
| 2001 09 16.80 | x | S | 10.4 | TJ | 15.0 | B | | 25 | 1.8 | 3 | | | HAS08 |
| 2001 09 17.80 | x | S | 9.9 | TJ | 32.0 | L | 5 | 58 | 1.9 | 5 | | | NAG08 |
| 2001 09 19.12 | | S | 9.7 | TT | 8.0 | B | | 10 | 5 | 2/ | | | HOR02 |
| 2001 09 20.07 | | M | 11.0 | PA | 30 | L | 5 | 60 | 2.5 | 2 | | | NEV |
| 2001 09 20.08 | | M | 9.7 | TT | 42 | L | 5 | 66 | 2.6 | 3 | | | LEH |
| 2001 09 22.10 | | S | 10.6 | HS | 44.5 | T | 4 | 81 | 2.5 | 3 | | | SAR02 |
| 2001 09 22.11 | | S | 9.9 | HS | 36 | L | 6 | 70 | 3.6 | 3 | | | BAR06 |
| 2001 09 22.74 | | S | 10.2 | TJ | 25.4 | T | 6 | 62 | 2.6 | 3 | | | YOSO4 |
| 2001 09 22.76 | | M | 10.0 | HS | 25.0 | L | 6 | 47 | 2.7 | 3 | | | TSU02 |
| 2001 09 22.76 | x | S | 10.3 | HS | 31.7 | L | 6 | 63 | 2.4 | 3/ | | | MIY01 |
| 2001 09 22.80 | x | S | 9.9 | TJ | 32.0 | L | 5 | 58 | 2.7 | 5 | | | NAG08 |
| 2001 09 22.82 | x | S | 10.5 | HS | 15.0 | B | | 25 | 2.4 | 2 | | | HAS08 |
| 2001 09 23.17 | | S | 10.7 | TK | 20.3 | L | 6 | 48 | 1.7 | 3 | | | BIV |
| 2001 09 24.78 | x | S | 10.6 | HS | 31.7 | L | 6 | 63 | 1.3 | 4 | | | MIY01 |
| 2001 09 26.76 | | S | 10.7 | GA | 25.4 | L | | 71 | 4 | 2 | | | SEA |
| 2001 09 27.07 | | M | 11.2 | PA | 30 | L | 5 | 60 | 2 | 1 | | | NEV |
| 2001 09 27.11 | | M | 11.5 | GA | 25 | L | 4 | 53 | 1 | 3 | | | SHU |
| 2001 09 27.80 | | S | 10.8 | TJ | 20 | L | 7 | 45 | 1.5 | 4 | | | MAT08 |
| 2001 09 28.76 | | S | 11.0 | TJ | 25.4 | T | 6 | 62 | 2.2 | 3/ | | | YOSO4 |
| 2001 09 29.06 | a | M | 11.2 | PA | 30 | L | 5 | 60 | 2.5 | 2 | | | NEV |
| 2001 09 29.16 | | S | 11.0: | TJ | 25.4 | J | 6 | 88 | & 2 | 3 | | | BOU |
| 2001 09 30.17 | | S | 11.4 | TK | 25.6 | L | 5 | 42 | 1.4 | 3 | | | BIV |
| 2001 09 30.17 | | S | 11.5 | TK | 25.6 | L | 5 | 84 | 1.3 | 3 | | | BIV |
| 2001 10 13.78 | x | S | 11.6 | HS | 25.4 | L | 4 | 46 | 1.8 | 2 | | | YOSO2 |
| 2001 10 13.80 | x | S | 12.1 | HS | 31.7 | L | 6 | 63 | 1.0 | 4 | | | MIY01 |
| 2001 10 14.77 | | S | 12.5 | HS | 28 | L | 10 | 88 | 1.3 | 3 | | | MAT08 |
| 2001 10 14.80 | x | S | 12.2 | HS | 25.4 | L | 4 | 46 | 2.0 | 2 | | | YOSO2 |
| 2001 10 16.18 | | S | 12.4 | HS | 20.3 | L | 6 | 95 | 1.0 | 3 | | | BIV |
| 2001 10 17.07 | w | M | 12.8 | AS | 30 | L | 5 | 60 | 1 | 1 | | | NEV |
| 2001 10 19.79 | | S | [11.5 | HS | 25.4 | L | 6 | 62 | ! 1.5 | | | | YOSO4 |
| 2001 10 19.81 | | M | 11.5 | HS | 25.0 | L | 6 | 63 | 3.0 | 2 | | | TSU02 |
| 2001 10 28.20 | | S | 12.4: | HS | 25.6 | L | 5 | 84 | 1.0 | 2 | | | BIV |

Comet P/2001 Q5 (LINEAR-NEAT)

| DATE (UT) | N | MM | MAG. | RF | AP. | T | F/ | PWR | COMA | DC | TAIL | PA | OBS. |
|---------------|---|----|-------|----|------|---|----|-----|-------|----|------|----|-------|
| 2001 09 21.96 | | S | [14.0 | HS | 44.5 | T | 4 | 146 | ! 1.0 | | | | SAR02 |

Comet P/2001 Q6 (NEAT)

| DATE (UT) | N | MM | MAG. | RF | AP. | T | F/ | PWR | COMA | DC | TAIL | PA | OBS. |
|---------------|---|----|------|----|------|---|----|-----|------|----|------|----|-------|
| 2001 09 22.00 | | S | 14.0 | HS | 44.5 | T | 4 | 146 | 1.5 | 2 | | | SAR02 |
| 2001 10 08.81 | | S | 11.8 | GA | 31.0 | J | 6 | 89 | 2.5 | 2/ | | | BOU |
| 2001 10 09.86 | | S | 13.2 | AC | 41 | L | 5 | 121 | 1.5 | 3 | | | RES |
| 2001 10 12.94 | | S | 12.7 | AC | 41 | L | 5 | 121 | 1.8 | 2 | | | RES |
| 2001 10 13.64 | x | S | 11.9 | HS | 25.4 | L | 4 | 113 | 1.7 | 2 | | | YOS02 |
| 2001 10 13.95 | | S | 12.6 | AC | 41 | L | 5 | 121 | 1.8 | 2 | | | RES |
| 2001 10 14.74 | x | S | 11.1 | HS | 25.4 | L | 4 | 46 | 2.3 | 3 | | | YOS02 |
| 2001 10 15.85 | | S | 11.4 | TJ | 31.0 | J | 6 | 72 | 2.6 | 2 | | | BOU |
| 2001 10 15.86 | | S | 11.3 | TJ | 31.0 | J | 6 | 72 | 2.7 | 2 | | | DIJ |
| 2001 10 16.90 | | S | 11.2 | TJ | 31.0 | J | 6 | 72 | 2.8 | 1/ | | | DIJ |
| 2001 10 16.90 | | S | 11.5 | TJ | 31.0 | J | 6 | 72 | 2.7 | 2 | | | BOU |
| 2001 10 18.64 | x | S | 11.0 | TJ | 32.0 | L | 5 | 91 | 3.1 | 2 | | | NAG08 |
| 2001 10 19.73 | | S | 12.2 | HS | 25.4 | T | 6 | 62 | 1.5 | 2 | | | YOS04 |
| 2001 10 19.93 | | S | 11.4 | TJ | 25.4 | J | 6 | 72 | 3.2 | 1/ | | | DIJ |
| 2001 10 19.93 | | S | 11.5 | TJ | 25.4 | J | 6 | 72 | 2.7 | 1/ | | | BOU |
| 2001 10 20.02 | | S | 11.7 | AC | 41 | L | 5 | 121 | 1.8 | 2 | | | RES |
| 2001 10 22.10 | | S | 10.9 | TI | 44.5 | T | 4 | 146 | 5 | 3 | | | SAR02 |
| 2001 10 23.08 | | S | 11.0 | TI | 44.5 | T | 4 | 82 | 4.5 | 2/ | | | SAR02 |
| 2001 10 23.80 | | M | 12.3 | PA | 30 | L | 5 | 60 | 1.2 | 2 | | | NEV |
| 2001 10 24.65 | x | S | 10.5 | TJ | 32.0 | L | 5 | 58 | 2.7 | 4 | | | NAG08 |
| 2001 10 24.85 | | M | 11.8 | PA | 30 | L | 5 | 60 | 1.5 | 2 | | | NEV |
| 2001 10 26.90 | | S | 11.8 | AC | 41 | L | 5 | 121 | & 2 | 2/ | | | RES |

Φ Φ Φ

DESIGNATIONS OF RECENT COMETS

Listed below, for handy reference, are the last 15 comets to have been given designations in the new system. The name, preceded by a star (*) if the comet was a new discovery (compared to a recovery from predictions of a previously-known short-period comet) or a # if a re-discovery of a 'lost' comet. Also given are such values as the orbital period (in years) for periodic comets, date of perihelion, T (month/date/year), and the perihelion distance (q , in AU). Four-digit numbers in the last column indicate the *IAU Circular* (4-digit number) containing the discovery/recovery or permanent-number announcement.

Not included below are numerous recently-discovered comets observed only with the SOHO spacecraft — and seen only close to the sun with the SOHO instruments — that are presumed to be Kreutz sungrazers that are no longer in existence [see the list and references in the October 2000 issue (p. 149)]; recent such SOHO discoveries were reported on *IAUC* 7726, 7730, 7741, 7746, 7750, 7759, 7760, and 7764, and include comets C/1996 B4, B5, R4, and V1; and C/2001 S2, T1, T2, U1, U2, U3, U4, U5, T6, T7, U7, U8, U9, U10, V1, V2, V3, V4, V5, W3, and W4. SOHO comet C/2001 T5 (*IAUC* 7750) does not appear to be of the Kreutz sungrazing type.

[This list updates that in the July 2001 issue, p. 150. For explanation regarding new usage of 'C/' instead of 'P/' for intermediate-period comets, see editorial note on page 2 of the January 2000 issue.]

| | <i>New-Style Designation</i> | P | T | q | <i>IAUC</i> |
|---|---------------------------------------|------|----------|------|-------------|
| * | C/2001 Q4 (NEAT) | | 5/25/04 | 1.00 | 7695 |
| * | C/2001 Q5 (LINEAR-NEAT) | | 6/11/01 | 2.04 | 7697 |
| * | P/2001 Q6 (NEAT) | 22.6 | 11/9/01 | 1.41 | 7698 |
| * | P/2001 R1 (LONEOS) | 6.5 | 2/17/02 | 1.36 | 7713 |
| * | P/2001 R6 (LINEAR-Skiff) | 8.35 | 10/27/01 | 2.12 | 7723 |
| * | C/2001 RX ₁₄ (LINEAR) | | 1/18/03 | 2.06 | 7739 |
| * | C/2001 S1 (Skiff) | | 6/2/01 | 3.75 | 7725 |
| * | P/2001 T3 (NEAT) | 16.6 | 2/1/02 | 2.51 | 7733 |
| * | C/2001 T4 (NEAT) | 51.9 | 5/15/02 | 8.6 | 7738 |
| * | P/2001 TU ₈₀ (LINEAR-NEAT) | 7.00 | 12/10/01 | 1.93 | 7753 |
| * | C/2001 U6 (LINEAR) | | 8/8/02 | 4.41 | 7746 |
| * | C/2001 W1 (LINEAR) | | 12/24/01 | 2.40 | 7754 |
| * | C/2001 W2 (BATTERS) | 76.1 | 12/23/01 | 1.05 | 7758 |
| * | C/2001 X1 (LINEAR) | | 1/8/02 | 1.70 | 7774 |
| * | P/2001 X2 (Scotti) | 7.6 | 10/1/01 | 2.5 | 7775 |