SEE HALLEY WITH NATIONAL CAPITAL ASTRONOMERS! OR WAIT UNTIL 2061!

NCA offers the following tours to the Southern Hemisphere for the best of Halley's Comet. All tours include deluxe and best available hotels, major airlines, all airfares, transfers, portage of two average suitcases, all hotel, restaurant, and driver tips, and most meals. Many interesting features are included in addition to especially selected dark sites along the itinerary for observation of Halley's Comet and study of the southern sky, for a truly memorable, educational vacation experience. Bring plenty of film! These tours are offered in conjunction with one of the most experienced and thorough astronomical tour operators.


Highlights - Gala welcome reception and dinner in Rio, southern sky studies with astronomers at several especially selected dark sites along the itinerary, expert guides, cable car to top of Sugar Loaf in Rio, comet observation at National Observatory in Valparaiso by invitation of the Director, private yacht cruise on Rio Harbor, barbecue lunch on island off Rio, excursion to 120-foot statue of Christ on Corcovado Mountain with 360-degree view, time for Copacabana Beach and shopping, exploration of both Brazilian and Argentine sides of Iguassu Falls, 275 cataracts higher and larger than either Niagara or Africa's Victoria Falls, including "Devil's Throat," tour of Buenos Aires including cultural, historical, and artistic interests, introductory horseback or horse-drawn carriage tour of a working Argentine ranch including traditional cowboys, tour of Santiago, Chile, dinner and colorful folk dances at a lively nightclub in Santiago, comet viewing at La Serena, visit to observatory and local tour, tours of colonial and contemporary Lima, Peru, visit to Museum of Anthropology and Archaeology, exploration of Inca ruins at Cuzco, high in the Andes, excursion to Machu Picchu, "Lost City of the Incas," farewell dinner and a chance to win a Bausch and Lomb model 4000 Telescope System!

Optional extensions - Quito, Ecuador, 2 days. $275 double. Single supplement $50. Galapagos Islands cruise (subject to availability and cabin), from $570 double. Single supplement approx. $300.

HALLEY TOUR B - 10 days, April 4 - April 13. Chile only - Santiago and La Serena. $1850 double from Miami. Single supplement $75.

Highlights - Gala reception, dinner, and briefing in Santiago, lecture on comet photography, especially dark site at La Serena. Four four-day comet observation sessions, hot beverages and snacks provided each session, sightseeing tour of Santiago, visit to 400-year-old hacienda-museum, performance of colorful folk dances, gala farewell reception and dinner, a signed copy of Robert T. Little's book, Astrophoto Step-by-Step Approach, a chance to win a Bausch and Lomb Model 4000 Telescope System!

Optional extension to Peru - Lima, Cuzco, Machu Picchu. Return April 17. $710 double, single supplement $100.


Highlights - New Zealand - Gala reception, dinner, and briefing in Auckland. Comprehensive sightseeing tours in all of the above cities, introduction to southern sky at Auckland Planetarium, visit with local astronomers at Auckland Observatory, visit Gloworm Grotto at Waitomo, geothermal region of geysers, boiling mud and Rainbow Springs at Rotorua, Maori hangi feast and concert, circumnolar comet viewing at Queenstown, flightseeing excursion to Milford Sound and launch cruise, dinner at Skyline Restaurant on Bob's Peak, reached by aerial gondola, comet viewing at Coronet Peak, cruise across Lake Wakatipu to Walter Peak Sheep Station, optional ski-plane flight up to the Tasman Glacier, visit Canterbury Astronomical Society and the West Nelson Observatory, Australia - visit Captain Cook's Cottage, the University, and Botanical Gardens, flight to Phillip Island, Kingston Park Zoo (time permitting) to see koalas, emus, and platypuses. In the Outback, Alice Springs and Ayers Rock. Lectures.

OCCUPATION EXPEDITIONS PLANNED

Dr. David Dunham is organizing observers for the following observing opportunities. For further information call Dave at 585-0989.

<table>
<thead>
<tr>
<th>UT</th>
<th>Place</th>
<th>Mag</th>
<th>Sunlit</th>
<th>Sun</th>
<th>Angle</th>
<th>Aper</th>
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<td>09-10-05 07:54</td>
<td>Hermanville MD</td>
<td>8.3</td>
<td>23</td>
<td>14N</td>
<td>16 cm</td>
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<tr>
<td>09-11-05 12:08</td>
<td>Florence, NC</td>
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<tr>
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<td>13N</td>
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<tr>
<td>09-12-05 09:55</td>
<td>Glendale, MD</td>
<td>7.4</td>
<td>7</td>
<td>13N</td>
<td>5 cm</td>
<td></td>
</tr>
</tbody>
</table>

Asteroidal Tour - Star Mag Delta Mag Name

| 09-01-05 04:53 | Upper Midwest | 8.9 | 2.0 | (230) Athamantis | 8 cm |
| 09-28-05 08:29 | Northwest Canada | 9.1 | 2.6 | (105) Artemis | 13 cm |

Comet Tour: Star Mag Comet

| 09-07-05 | Quebec | 6.1 | Giacomin-Zinner | 3 cm |
| 09-06-05 | Quebec | 11.8 | Giacomin-Zinner | 10 cm |
| 09-11-05 | Ontario, NY, CT | 10.7 | Giacomin-Zinner | 3 cm |
| 09-13-05 | Newfoundland | 11.6 | Giacomin-Zinner | 20 cm |
| 09-17-05 | AR, MS, AL, CA, SC | 12.1 | Giacomin-Zinner | 10 cm |

NCA WELCOMES NEW MEMBERS

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5267 Oxen Hill Rd, Apt. 302
Oxon Hill, MD 20745

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4620 N. Park Ave., Apt. 30W
Bethesda, MD 20815

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Rockville, MD 20853

Daniel W. Finger
5009 Westpark Terrace
Bethesda, MD 20816

Paul L. Marx
7519 49th Pl.
College Park, MD 20740

nnumberous comet observation sessions under clear, unpolluted sky, local tour of fascinating geography of the Outback, flight to Cairns, excursion to Port Douglas, cruise to Outer Barrier Reef for snorkeling to see marine life, rail-trip views of Coral Sea and Cairns, tour of Sydney, cruise of Sydney Harbor, time for shopping for opals, etc., farewell reception, dinner and prize drawing for a Bausch and Lomb model 4000 Telescope System!

Optional extension to Fiji and total lunar eclipse - 6 days. Nadi, Blue Lagoon, Lautoka. $560 double. Single supplement $475 (High cost because 3-day cruise single rate is almost 100 percent of share basis.)

Highlights - Three-day cruise from Nadi, spectacular southern Yasawa Islands, visit to the islands, swimming in clear blue waters, native entertainment at Nabukeru Village, visit to a Fijian school, talk and discussion on total lunar eclipse, especially selected site for viewing total lunar eclipse.

RESERVATIONS - A prompt deposit of $250 will hold your place on any of these super tours. The balance must be received before January 1, 1988. Make checks payable to NCA Travel and indicate on your check which tour you choose. A valid passport and the necessary visas will be required; we will provide you with information on this documentation and other conditions that apply. Consult your physician for his advice on inoculations, and on any problem you might have at high altitudes if you are going to Peru; Cuzco is at approximately 11,000 feet. HALLEY-NO!!!
EXCERPTS FROM THE IAU CIRCULARS

1. June 29 - Feldman and Marshall, Herzberg Institute of Astrophysics, Ottawa, observed renewed radio flaring by UX Arietis, and RS CVn binary, at 16.6 MHz with the 46-m telescope at the Algonquin Radio Observatory.
2. July 27 - Klekociuk, McCulloch, and Hamilton, University of Tasmania, found that the period of Vela Pulsar PSR 0833-45, decreased suddenly about July 12.
3. August - RH McNaught, Siding Spring observatory, noted that a meteor stream associated with Comet Giacobini-Zinner might be observable during the Earth's October 8.55 passage through the plane of the comet's orbit. He predicts it may be visible as glow near the plane and radiant.
4. July - Norris and Wood, Naval Research Laboratory, reported intermittent quasi-periodic oscillations of approximately 5 Hz in X-ray emission from Cyg X-2, in HEAO data from 1976 December.

CORRECTION

In the Summer Star Dust, the treasurer's report contains the following typographical errors: Under Income - deposits for Green Bank trip should be 557.50. Expenses - refunds should be 865.50. Disregard the footnote. The totals are correct as shown.

FOR SALE


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FIRST CLASS