APPENDIX B

Annual Visiting Observer Data

B.1 Demographics of Visiting Observers from U.S. Institutions

In the 12 months ending July 31, 2002, NOAO awarded telescope time to 620 U.S. scientists associated with 435 successful proposals. The map below shows the distribution, by state of origin, of the U.S. observing team members—PI’s, Co-I’s, students, and other collaborators—associated with these programs. (Appendices E through I of this Annual Report list the observer names, program titles, and number of nights awarded by observatory and telescope for each proposal.)

States of Origin of 620 U.S. Observers Awarded Time*
On NOAO Telescopes, WIYN, Gemini, HET, and MMTO
(Two Semesters Ending July 31, 2002)

* For the purposes of this report, observers are counted only once, regardless of number of proposals or observing visits awarded to any one individual. Data exclude NOAO staff observers.

NOAO thus provided observing time to U.S. observers from 143 institutions in 42 states. About 75% of all observers came from states with important astronomy departments, and/or prominent scientific research institutions. Nearly one-quarter of last year’s U.S. observers came from one of the following institutions: (1) Space Telescope Science Science Institute, (2) Harvard-Smithsonian Center for Astrophysics, (3) the University of Arizona, (4) Johns Hopkins University, or (5) the University of California, Berkeley.
B.2 U.S. Visiting Observers at the Gemini Telescopes

In the 12 months ending July 31, 2002, 73 U.S. observing programs—of which 13 (18%) were graduate thesis programs—were awarded time on the Gemini telescopes. The map below shows the distribution, by state of origin, of the 155 U.S. observing team members—PI’s, Co-I’s, students, and other collaborators—associated with these successful programs.

![Map showing states of origin of U.S. observers](image-url)
APPENDIX C

Key Management and FY 2002 Scientific Personnel Data

C.1 Key Management

- Jeremy R. Mould, Director
- Todd A. Boroson, Deputy Director; Associate Director, Data Products Program (DPP)
- Richard Green, Director, Kitt Peak National Observatory
- Malcolm Smith, Director, Cerro Tololo Inter-American Observatory; Head of AURA Observatory (AURA-O) in Chile
- Alistair Walker, Deputy Director, Cerro Tololo Inter-American Observatory
- Taft Armandroff, Acting Director, U.S. Gemini Program (USGP)
- Stephen Strom, Associate Director, Science Program
- Larry Daggert, Manager, Engineering and Technical Services (ETS)
- Doug Isbell, Manager, Public Affairs and Educational Outreach (PAEO)
- Steve Grandi, Manager, Computer Infrastructure Support (CIS)
- Karen Wilson, Financial Manager and Head of Facilities Operations and Central Administrative Services (CAS)

C.2 FY 2002 Scientific Personnel Data

Hired

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<tr>
<th>Date</th>
<th>Name</th>
<th>Position</th>
<th>Division/Unit</th>
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<tr>
<td>10/02/01</td>
<td>Alan Whiting</td>
<td>Research Associate</td>
<td>NOAO South</td>
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<td>02/18/02</td>
<td>Stephen Pompea</td>
<td>Mgr. Science Education, Public Affairs &amp; Educational Outreach/Astronomer</td>
<td>NOAO Tucson</td>
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<tr>
<td>03/01/02</td>
<td>Timothy Abbott</td>
<td>Scientist</td>
<td>NOAO Tucson</td>
</tr>
<tr>
<td>08/30/02</td>
<td>Lucas M. Macri+</td>
<td>Research Associate</td>
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+ = External Funding

Completed Employment

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<th>Position</th>
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<tr>
<td>10/31/01</td>
<td>Meenakshi Sahu</td>
<td>Research Associate</td>
<td>NOAO Tucson</td>
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<td>11/09/01</td>
<td>Gary Bower</td>
<td>Assistant Scientist</td>
<td>NOAO Tucson</td>
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<td>12/12/01</td>
<td>Robert Schommer</td>
<td>Astronomer; Assoc. Director, U.S.G.P. (deceased)</td>
<td>NOAO South</td>
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<td>03/15/02</td>
<td>Bruce Bohannan</td>
<td>Scientist</td>
<td>NOAO Tucson</td>
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<tr>
<td>07/26/02</td>
<td>Lindsey Davis</td>
<td>Sr. Scientific Programmer</td>
<td>NOAO Tucson</td>
</tr>
<tr>
<td>08/13/02</td>
<td>Michael Brotherton</td>
<td>Research Associate</td>
<td>NOAO Tucson</td>
</tr>
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Changed Status

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<th>Name</th>
<th>Position</th>
<th>Division/Unit</th>
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<tr>
<td>10/01/01</td>
<td>Stephen Strom</td>
<td>Appointed Associate Director for Science</td>
<td>NOAO Tucson</td>
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<td>02/15/02</td>
<td>Arjun Dey</td>
<td>Promotion to Associate Astronomer from Assistant Astronomer</td>
<td>NOAO Tucson</td>
</tr>
</tbody>
</table>
APPENDIX D

NOAO Scientific Staff and Their Research Interests

D.1 Scientists Based in La Serena

Timothy Abbott, Associate Scientist
Late stages of binary stellar evolution; instrumentation; detectors

Robert D. Blum, Assistant Astronomer
The Galactic Center and the stellar content of galactic Giant HII regions

Patrice J. E. Bouchet, Associate Scientist
IR instrumentation; adaptive optics; Tip Tilt; dust in supernovae and SN-remnants, SN1987A

James M. De Buizer, Research Associate (CTIO Postdoctoral Fellow)
Maser emission in star-forming regions; massive star formation. hot molecular cores; circumstellar disks and outflow; Galactic HII and Ultra Compact HII regions

Brooke Gregory, Scientist
Infrared instrumentation; next-generation telescope design; adaptive optics

Kevin Krisciunas, Research Associate (Carnegie)
Supernova studies

Dara J. Norman, Research Associate (NSF Postdoctoral Fellow)
Gravitational lensing; large-scale structure; quasars; low-mass companions of MS stars; cool stars

Knut A. Olsen, Assistant Astronomer
Stellar populations; star formation histories; formation; and evolution of dwarf galaxies; propagation of star formation; globular cluster properties; role of globular clusters in star formation histories of galaxies

Hugo E. Schwarz, Associate Astronomer
Fatally late stages of stellar evolution; PNe; symbiotics; polarimeter; astronomical site selection and protection

Malcolm G. Smith, Astronomer (Director, CTIO; Head of the AURA Observatory [AURA-O] in Chile)
The early Universe; quasars/active galactic nuclei; global environmental impact of light pollution

R. Chris Smith, Assistant Astronomer
Supernovae, SN remnants, the interstellar medium

Nicholas B. Suntzeff, Astronomer
Supernovae; cosmology; stellar populations; site characterization

Andrei Tokovinin, Associate Astronomer
Statistics and formation of binary and multiple star; adaptive optics; site testing

Nicole S. van der Bliek, Assistant Scientist
IR instrumentation; IR properties of late-type stars and young stars
Alistair R. Walker, Astronomer (Deputy Director, CTIO)
  Stellar populations; the Magellanic Clouds; the distance scale; astronomical instrumentation and CCDs

Alan B. Whiting, Research Associate (CTIO Postdoctoral Fellow)
  Nearby galaxy dynamic; dwarf galaxy surveys; local cosmology

D.2 Scientists Based in Tucson

Helmut A. Abt, Astronomer Emeritus
  Double stars; stellar rotation; stellar characteristics; publication practices in astronomy

Taft E. Armandroff, Astronomer (Acting Director, U.S. Gemini Program)
  Stellar populations in the Galaxy and nearby galaxies; dwarf spheroidal galaxies; globular clusters

Samuel C. Barden, Senior Scientist
  Stellar physics and dynamics; binary stars; spectroscopic instrumentation

Michael Belton, Astronomer Emeritus
  Planetary science; comets; asteroids; Jupiter system

Todd A. Boroson, Astronomer (Deputy Director, NOAO; Associate Director, Data Products Program)
  AGN spectra; AGN host galaxy properties

Michael J. I. Brown, Research Associate
  Active galaxies; galaxy clustering and Kuiper Belt objects

Charles F. Claver, Associate Scientist
  Stellar ages; White Dwarf structure and evolution; stellar photometry; optical instrumentation

Andrew Connolly [Assistant Professor, U. of Pittsburgh: http://www.phyast.pitt.edu/~ajc/]
  Formation and evolution of galaxies; data mining of large astrophysical surveys; the Sloan Digital Sky Survey; cosmology links; angular clustering from early SDSS data

Steven K. Croft, Senior Science Education Specialist/astronomer
  Inquiry- and research-based science education, planetary geology and geophysics, remote sensing

David S. De Young, Astronomer
  Active galaxies; galaxy clusters; galaxy evolution; hydrodynamics; turbulence; non-linear phenomena

Arjun Dey, Associate Astronomer
  Galaxy evolution; high redshift galaxies; large-scale structure

Andrew E. Dolphin, Research Associate (NASA)
  Stellar populations; star formation histories; Local Group; star Formation; CCD stellar photometry

Jonathan H. Elias, Astronomer
  Star formation and evolution; Magellanic Clouds; supernovae

John W. Glaspey, Scientist
  Stellar spectroscopy; Horizontal Branch stars; Blue Stragglers; optical instrumentation

Richard F. Green, Astronomer (Director, KPNO)
  Active galactic nuclei; quasar absorption line systems; galaxy nuclear dynamics
Kenneth H. Hinkle, Associate Scientist  
*Circumstellar and interstellar matter; molecular spectroscopy; peculiar stars; instrumentation*

Ivan Hubeny, Scientist (NASA-STIS)  
*Radiative transfer; stellar atmospheres; accretion disks; active galactic nuclei*

Buell Jannuzi, Associate Astronomer  
*Observational cosmology; quasar absorption line systems; active galaxies; instrumentation for surveys*

Richard R. Joyce, Scientist  
*Late-type stars; mass loss; infrared detector and instrumentation development*

Thomas Kinman, Astronomer Emeritus  
*Galactic structure; Galactic Halo; Horizontal Branch stars; RR Lyrae stars*

Tod R. Lauer, Associate Astronomer  
*Cosmology; large-scale structure of the Universe; evolution of the Universe; distance scale; structure of galaxies; dense stellar system; black holes in galactic nuclei; stellar populations*

C. Roger Lynds, Astronomer  
*Star and galaxy formation; products of galaxy interaction in the recent and early Universe*

Lucas M. Macri, Research Associate (NASA – Hubble Fellow)  
*Extragalactic distance scale: Cepheid variables, Tully-Fisher relation. Large Scale Structure: determination of Omega (matter) and non-linear biasing using peculiar velocities of galaxies in the 2MASS Redshift Survey*

K. Michael Merrill, Associate Scientist  
*Star formation; young stellar objects; interstellar medium; circumstellar envelopes; late stellar evolution; infrared instrumentation; data acquisition and reduction*

Kenneth J. Mighell, Associate Scientist (NASA)  
*Stellar populations in the Galaxy and nearby galaxies; formation and evolution of Local Group Galaxies; astrophysical applications of low-count statistics; dwarf spheroidal galaxies; globular clusters; CCD stellar photometry*

Jeremy R. Mould, Astronomer (NOAO Director)  
*Observational cosmology and the extragalactic distance scale; large optical/infrared telescopes; the multi-band imaging photometer for SIRTF; stellar populations*

Beatrice Mueller, Research Associate (NASA)  
*Planetary science; comets; asteroids*

Joan R. Najita, Associate Astronomer  
*Star and planet formation; substellar objects; wide-field surveys*

Stephen M. Pompea, (Manager, Science Education)/astronomer  
*Inquiry- and research-based science education; astronomical instrumentation*

Barton J. Pritzl, Research Associate (NASA + NOAO)  
*Variable stars; stellar populations; globular clusters; dwarf galaxies*

Ronald G. Probst, Associate Scientist  
*Star-forming regions; low-mass stars; infrared imaging instrumentation*
Stephen T. Ridgway, Astronomer (Georgia State U. – CHARA)
Stars; stellar evolution; high-resolution and infrared observing techniques; terrestrial exo-planets

Abhijit Saha, Astronomer
Variable stars; stellar populations; cosmological distance scale; imaging and photometry

Nalin Samarasinha, Assistant Scientist (NASA)
Small bodies of the solar system, primarily comets

Nigel A. Sharp, Associate Scientist
Double galaxies; large-scale structure; Galactic Center

Richard Shaw, Scientist
Late stages of stellar evolution; planetary nebulae; stellar populations; Magellanic Clouds; astronomical software; astronomy with large data sets

Stephen E. Strom, Astronomer (Associate Director for Science)
Star formation; large optical/IR telescopes

Francisco Valdes, Scientist
Cosmology; gravitational lensing; stellar spectroscopy; astronomical software

Constance E. Walker, Senior Science Education Specialist/astronomer
Inquiry- and research-based science education; submillimeter-wave spectroscopy of star formation in galaxies at different epochs.

Sidney C. Wolff, Astronomer
Star formation; stellar rotation

Lloyd Wallace, Astronomer Emeritus
Spectroscopy and atmospheric structure of cool stars; molecular spectroscopy.