

## D.2 TELESCOPES AT KITT PEAK NATIONAL OBSERVATORY

During FY12 (Oct. 2011–Sept. 2012), 194 publications used data taken at the KPNO telescopes (including the Mayall, WIYN, 1.2-m, and others) for which NOAO allocates observing time:<sup>2</sup>

Adams, J.J., et al. 2012, *ApJ*, 745, 92, “The Central Dark Matter Distribution of NGC 2976”

Allen, P.R., Burgasser, A.J., Faherty, J.K., Kirkpatrick, J.D. 2012, *AJ*, 144, 62, “Low-Mass Tertiary Companions to Spectroscopic Binaries. I. Common Proper Motion Survey for Wide Companions Using 2MASS”

Arcavi, I., ... **Matheson, T.**, et al. 2011, *ApJ*, 742, L18, “SN 2011dh: Discovery of a Type IIb Supernova from a Compact Progenitor in the Nearby Galaxy M51”

Azimlu, M., Marciniak, R., Barmby, P. 2011, *AJ*, 142, 139, “A New Catalog of H II Regions in M31”

Bai, Y., et al. 2012, *RAA*, 12, 443, “M Dwarf Stars—The By-product of X-ray Selected AGN Candidates”

Ballard, S., et al. 2011, *ApJ*, 743, 200, “The Kepler-19 System: A Transiting 2.2  $R_{\oplus}$  Planet and a Second Planet Detected via Transit Timing Variations”

Barnes, K.L., van Zee, L., Côté, S., Schade, D. 2012, *ApJ*, 757, 64, “Star Formation in the Outer Disk of Spiral Galaxies”

Barnes, K.L., van Zee, L., Skillman, E.D. 2011, *ApJ*, 743, 137, “Star Formation in the Outer Disks of Spiral Galaxies: Ultraviolet and H $\alpha$  Photometry”

Barrows, R.S., et al. 2012, *ApJ*, 744, 7, “A Candidate Dual Active Galactic Nucleus at  $z = 1.175$ ”

Bastien, F.A., Stassun, K.G., Weintraub, D.A. 2011, *AJ*, 142, 141, “High-Cadence Time-Series Photometry of V1647 Orionis”

Beck, T.L., et al. 2012, *ApJ*, 754, 72, “Circumbinary Gas Accretion onto a Central Binary: Infrared Molecular Hydrogen Emission from GG Tau A”

Bell, K.J., et al. 2012, *PASP*, 124, 14, “H $\alpha$  Emission Variability in Active M Dwarfs”

Borucki, W.J., et al. 2012, *ApJ*, 745, 120, “Kepler-22b: A 2.4 Earth-Radius Planet in the Habitable Zone of a Sun-Like Star”

Bresolin, F., Kennicutt, R.C., Ryan-Weber, E. 2012, *ApJ*, 750, 122, “Gas Metallicities in the Extended Disks of NGC 1512 and NGC 3621. Chemical Signatures of Metal Mixing or Enriched Gas Accretion?”

Brodwin, M., ... **Dey, A.**, ... **Jannuzi, B.T.**, et al. 2012, *ApJ*, 753, 162, “IDCS J1426.5+3508: Sunyaev-Zel’dovich Measurement of a Massive Infrared-Selected Cluster at  $z = 1.75$ ”

Buchhave, L.A., ... **Everett, M.**, et al. 2011, *ApJS*, 197, 3, “Kepler-14b: A Massive Hot Jupiter Transiting an F Star in a Close Visual Binary”

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<sup>2</sup> **Author Name** in bold = NOAO Scientific Staff member; Author Name underlined = Undergraduate student in Research Experiences for Undergraduates (REU) program

- Bussmann, R.S., **Dey, A.**, ... **Jannuzi, B.T.**, et al. 2012, *ApJ*, 744, 150, “The Star Formation Histories of  $z \sim 2$  Dust-Obscured Galaxies and Submillimeter-Selected Galaxies”
- Carlin, J.L., et al. 2012, *ApJ*, 744, 25, “Kinematics and Chemistry of Stars along the Sagittarius Trailing Tidal Tail and Constraints on the Milky Way Mass Distribution”
- Carlin, J.L., et al. 2012, *ApJ*, 753, 145, “The Origin of the Virgo Stellar Substructure”
- Carrell, K., Wilhelm, R., Chen, Y. 2012, *AJ*, 144, 18, “Red Clump Stars in the Sagittarius Tidal Streams”
- Cauley, P.W., Johns-Krull, C.M., Hamilton, C.M., Lockhart, K. 2012, *ApJ*, 756, 68, “Testing Disk-Locking in NGC 2264”
- Clem, J.L., Landolt, A.U. 2012, *PASP*, 124, 535, “Two Short-Period Eclipsing Binary Stars in the Field of PG 1047+003”
- Cochran, W.D., ... **Everett, M.**, et al. 2011, *ApJS*, 197, 7, “Kepler-18b, c, and d: A System of Three Planets Confirmed by Transit Timing Variations, Light Curve Validation, Warm-Spitzer Photometry, and Radial Velocity Measurements”
- Coe, D., et al. 2012, *ApJ*, 757, 22, “CLASH: Precise New Constraints on the Mass Profile of the Galaxy Cluster A2261”
- Cook, R.I., Dell’Antonio, I.P. 2012, *ApJ*, 750, 153, “The Missing Weak Lensing Mass in A781”
- Cool, R.J., ... **Dey, A.**, ... **Jannuzi, B.T.**, et al. 2012, *ApJ*, 748, 10, “The Galaxy Optical Luminosity Function from the AGN and Galaxy Evolution Survey”
- Coppa, G., et al. 2011, *A&A*, 535, A10, “The Bimodality of the 10k zCOSMOS-bright Galaxies up to  $z \sim 1$ : A New Statistical and Portable Classification Based on Optical Galaxy Properties”
- Crawford, S.M., Wirth, G.D., Bershad, M.A., Hon, K. 2011, *ApJ*, 741, 98, “Spectroscopy of Luminous Compact Blue Galaxies in Distant Clusters. I. Spectroscopic Data”
- Davidge, T.J., et al. 2012, *ApJ*, 751, 74, “The Recent Stellar Archeology of M31—The Nearest Red Disk Galaxy”
- Davis, B.L., et al. 2012, *ApJS*, 199, 33, “Measurement of Galactic Logarithmic Spiral Arm Pitch Angle Using Two-Dimensional Fast Fourier Transform Decomposition”
- Dawson, W.A., et al. 2012, *ApJ*, 747, L42, “Discovery of a Dissociative Galaxy Cluster Merger with Large Physical Separation”
- de Bergh, C., et al. 2012, *P&SS*, 61, 85, “Applications of a New Set of Methane Line Parameters to the Modeling of Titan’s Spectrum in the 1.58  $\mu\text{m}$  Window”
- Deming, D., et al. 2012, *ApJ*, 754, 106, “Infrared Eclipses of the Strongly Irradiated Planet WASP-33b, and Oscillations of Its Host Star”
- Deming, D., et al. 2011, *ApJ*, 740, 33, “Kepler and Ground-Based Transits of the Exo-Neptune HAT-P-11b”

Dhital, S., et al. 2012, *AJ*, 143, 67, “Refined Metallicity Indices for M Dwarfs Using the SLoWPoKES Catalog of Wide, Low-Mass Binaries”

Dilday, B., et al. 2012, *Science*, 337, 942, “PTF 11kx: A Type Ia Supernova with a Symbiotic Nova Progenitor”

Edwards, L.O.V., Fadda, D. 2011, *AJ*, 142, 148, “A Multi-Wavelength Analysis of Spitzer Selected Coma Cluster Galaxies: Star Formation Rates and Masses”

Eisenhardt, P.R.M., et al. 2012, *ApJ*, 755, 173, “The First Hyper-Luminous Infrared Galaxy Discovered by WISE”

Elias-Rosa, N., et al. 2011, *ApJ*, 742, 6, “The Massive Progenitor of the Possible Type II-Linear Supernova 2009hd in Messier 66”

Endl, M., ... **Everett, M.**, et al. 2011, *ApJS*, 197, 13, “Kepler-15b: A Hot Jupiter Enriched in Heavy Elements and the First Kepler Mission Planet Confirmed with the Hobby-Eberly Telescope”

Eracleous, M., **Boroson, T.A.**, Halpern, J.P., Liu, J. 2012, *ApJS*, 201, 23, “A Large Systematic Search for Close Supermassive Binary and Rapidly Recoiling Black Holes”

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**Everett, M.E.**, Howell, S.B., Kinemuchi, K. 2012, *PASP*, 124, 316, “A UVB Photometric Survey of the Kepler Field”

Fabbri, J., et al. 2011, *MNRAS*, 418, 1285, “The Effects of Dust on the Optical and Infrared Evolution of SN 2004et”

Fan, Z., de Grijs, R. 2012, *MNRAS*, 424, 2009, “Systematic Differences in Simple Stellar Population Model Results: Application to the M31 Globular-Like Cluster System”

Fang, G., Kong, X., Chen, Y., Lin, X. 2012, *ApJ*, 751, 109, “Passive and Star-Forming Galaxies at  $1.4 \leq z \leq 2.5$  in the AEGIS Field”

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Ford, E.B., ... **Everett, M.E.**, et al. 2012, *ApJ*, 750, 113, “Transit Timing Observations from Kepler. II. Confirmation of Two Multiplanet Systems via a Non-parametric Correlation Analysis”

Fortney, J.J., ... **Everett, M.**, et al. 2011, *ApJS*, 197, 9, “Discovery and Atmospheric Characterization of Giant Planet Kepler-12b: An Inflated Radius Outlier”

Franchetti, N.A., et al. 2012, *AJ*, 143, 85, “Physical Structure and Nature of Supernova Remnants in M101”

Fressin, F., et al. 2011, *ApJS*, 197, 5, “Kepler-10 c: A 2.2 Earth Radius Transiting Planet in a Multiple System”

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- Geller, M.J., et al. 2012, *AJ*, 143, 102, “The Faint End of the Luminosity Function and Low Surface Brightness Galaxies”
- George, M.R., et al. 2011, *ApJ*, 742, 125, “Galaxies in X-ray Groups. I. Robust Membership Assignment and the Impact of Group Environments on Quenching”
- Giammichele, N., Bergeron, P., Dufour, P. 2012, *ApJS*, 199, 29, “Know Your Neighborhood: A Detailed Model Atmosphere Analysis of Nearby White Dwarfs”
- Gosnell, N.M., et al. 2012, *ApJ*, 745, 57, “An Unexpected Discovery in the Rich Open Cluster NGC 6819 Using XMM-Newton”
- Green, P.J., et al. 2011, *ApJ*, 743, 81, “A Multiwavelength Study of Binary Quasars and Their Environments”
- Guerrero, M.A., et al. 2012, *ApJ*, 755, 129, “Rebirth of X-ray Emission from the Born-Again Planetary Nebula A30”
- Haines, C.P., et al. 2012, *ApJ*, 754, 97, “LoCuSS: A Dynamical Analysis of X-ray Active Galactic Nuclei in Local Clusters”
- Hart, Q.N., et al. 2011, *ApJ*, 740, 59, “The Evolution of Radio Galaxies and X-ray Point Sources in Coma Cluster Progenitors since  $z \sim 1.2$ ”
- Herald, J.E., Bianchi, L. 2011, *MNRAS*, 417, 2440, “The Winds of Hydrogen-Rich Central Stars of Planetary Nebulae”
- Hermes, J.J., ... **Everett, M.**, et al. 2011, *ApJ*, 741, L16, “Discovery of a ZZ Ceti in the Kepler Mission Field”
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- Howell, S.B., ... Everett, M., ... Silva, D.R., Mighell, K.,** et al. 2012, ApJ, 746, 123, “Kepler-21b: A  $1.6R_{\text{Earth}}$  Planet Transiting the Bright Oscillating F Subgiant Star HD 179070”
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- Hussain, G.A.J., et al. 2012, MNRAS, 423, 493, “Chandra Study of the Eclipsing M Dwarf Binary, YY Gem”
- Ideue, Y., et al. 2012, ApJ, 747, 42, “The Role of Galaxy Interaction in Environmental Dependence of the Star Formation Activity at  $z \cong 1.2$ ”
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- Jang, M., et al. 2011, ApJ, 741, L20, “Dust Properties in the Afterglow of GRB 071025 at  $z \sim 5$ ”
- Johnson, C.I., Pilachowski, C.A. 2012, ApJ, 754, L38, “Oxygen and Sodium Abundances in M13 (NGC 6205) Giants: Linking Globular Cluster Formation Scenarios, Deep Mixing, and Post-RGB Evolution”
- Jurcsik, J., ... **Saha, A.,** et al. 2012, MNRAS, 419, 2173, “Long-Term Photometric Monitoring of RR Lyrae Stars in Messier 3”
- Kaplan, D.L., et al. 2012, ApJ, 753, 174, “Discovery of the Optical/Ultraviolet/Gamma-ray Counterpart to the Eclipsing Millisecond Pulsar J1816+4510”
- Kastner, J.H., et al. 2012, AJ, 144, 58, “The Chandra X-ray Survey of Planetary Nebulae (CHANPLANS): Probing Binarity, Magnetic Fields, and Wind Collisions”
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- Keel, W.C., et al. 2012, AJ, 144, 66, “The History and Environment of a Faded Quasar: Hubble Space Telescope Observations of Hanny’s Voorwerp and IC 2497”
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- Koss, M., et al. 2011, ApJ, 739, 57, “Host Galaxy Properties of the Swift Bat Ultra Hard X-ray Selected Active Galactic Nucleus”
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- Lee, K.-S., ... **Dickinson, M.E.**, et al. 2012, ApJ, 752, 66, “How Do Star-Forming Galaxies at  $z > 3$  Assemble Their Masses?”
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- Lin, L., **Dickinson, M.**, et al. 2012, ApJ, 756, 71, “Clustering Properties of BzK-Selected Galaxies in GOODS-N: Environmental Quenching and Triggering of Star Formation at  $z \sim 2$ ”
- Lissauer, J.J., et al. 2012, ApJ, 750, 112, “Almost All of Kepler’s Multiple-Planet Candidates Are Planets”
- Ly, C., et al. 2012, ApJ, 757, 63, “The Stellar Population and Star Formation Rates of  $z \approx 1.5$ – $1.6$  [O II]-emitting Galaxies Selected from Narrowband Emission-Line Surveys”
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Marriner, J., et al. 2011, ApJ, 740, 72, “A More General Model for the Intrinsic Scatter in Type Ia Supernova Distance Moduli”

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- Otsuka, M., et al. 2012, *ApJ*, 744, 26, “Late-Time Light Curves of Type II Supernovae: Physical Properties of Supernovae and Their Environment”
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### D.3 GEMINI TELESCOPES (NOAO SYSTEM SCIENCE CENTER)

During FY12 (Oct. 2011-Sept. 2012), 94 publications used data taken at the Gemini telescopes:<sup>3</sup>

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<sup>3</sup> **Author Name** in bold = NOAO Scientific Staff member; Author Name underlined = Undergraduate student in Research Experiences for Undergraduates (REU) program