

2002 CEDAR WORKSHOP

Student Biographies

Acott, Phillip, BS May 2002, Colorado State University, Physics Department, Fort Collins, CO 80523, phone: 970-491-5424, e-mail: acott at lamar.colostate.edu [Joe She, 970-491-6261]. *Research Interests*: Na-Lidar, Non-linear optics, gravity waves, tides. *Instruments, Models, Data Used*: none.

Adachi, Kazuhiro, PhD March 2005, Nagoya University, Solar Terrestrial Environment Laboratory, 64-8601, Furo-cho, Chigusa-ku, Nagoya City, Aichi Prefecture, phone: 81-52-789-4310, fax: 81-52-789-4311, e-mail: kadachi at stelab.nagoya-u.ac.jp [Ryoichi FUJII, 81-52-789-4310, rfujii at stelab.nagoya-u.ac.jp]. *Research Interests*: M-I coupling, particle precipitation. *Instruments, Models, Data Used*: EISCAT Radar, Multiwavelength Photometer.

Arnold, Kam S., BS May 2002, Colorado State University, Fort Collins, CO 80523-1875, phone: 970-491-5424, fax: 970-491-7947, e-mail: kamarnold at hotmail.com [David Krueger and Joe She, 970-491-7381 and 970-491-6261, krueger at lamar.colostate.edu and joeshe at lamar.colostate.edu]. *Research Interests*: Mesopause climatology, wave-activities, and dynamics; polar mesosphere dynamics; sodium densities in the mesopause region. *Instruments, Models, Data Used*: Sodium fluorescence lidars at CSU in Fort Collins, CO and at ALOMAR in Andenes, Norway.

Asavei, Theodor, PhD May 2005, University of Alaska, Physics Department, 900 Yukon Drive, Suite 128, Fairbanks, AK 99775, phone: 907-474-6795, e-mail: asavei at yahoo.com [Mark Conde, 907-474-7347, mark.conde at gi.alaska.edu]. *Research Interests*: Upper atmospheric winds. *Instruments, Models, Data Used*: none.

Bahcivan, Hasan, PhD 2005, Cornell University, Frank H.T. Rhodes Hall, Room 306, Ithaca, NY 14850, phone: 607-255-8298, e-mail: hb53 at ece.cornell.edu [Michael C. Kelley, 607-255-7425, mikek at ece.cornell.edu]. *Research Interests*: Polar Mesospheric Summer Echoes. *Instruments, Models, Data Used*: Radars, rockets and balloons.

Bekerat, Hamed, PhD August 2003, Utah State University, Logan, UT 84322, phone: 437-797-2939, e-mail: hamed at gaim.cass.usu.edu, slwnm at cc.usu.edu [Robert Schunk, 435-797-2962, shawna at cc.usu.edu]. *Research Interests*: Ionospheric High Latitude Convection and precipitation. *Instruments, Models, Data Used*: IGRF, Hardy Precipitation Model, Weimer convection model, DMSP Data.

Bodrero, Angela, BS 2004, Utah State University, 1800 Old Main Hill, Logan, UT 84322, phone: 435-245-3150, e-mail: abodrero at cc.usu.edu (Mailing Address) 665 East 400 North, Wellsville, UT 84339 [Dr. Vince Wickwar, wickwar at aeronomy.cass.usu.edu]. *Research Interests*: none. *Instruments, Models, Data Used*: none.

Boulter, James E., PhD August 2001, Note: recent graduate, SRI International, 333 Ravenswood Avenue, Menlo Park, CA 94025, phone: 650-859-2970, fax: 650-859-6196,

e-mail: james.boulter at sri.com [Jochen Marschall; 650-859-2667; jochen.marschall at sri.com]. *Research Interests*: Laboratory investigations of heterogeneous chemical reactions, relevant to the mesopause region, i.e., reactions involving, atomic oxygen on NLC/PMSE ice and meteoritic dust surfaces. *Instruments, Models, Data Used*: Knudsen cell experimental approach utilizing mass, spectrometry, infrared spectrometry, laser-induced, fluorescence and other laser-based probing techniques.

Briczinski, Stanley J., PhD 2005, Pennsylvania State University, 121 EE East, University Park, PA 16802, phone: 814-865-0188, e-mail: sjb144 at psu.edu [Dr. John Mathews, 814-865-2354, jdmathews at psu.edu]. *Research Interests*: none. *Instruments, Models, Data Used*: none.

Bronn, Justin, BS May 2003, Southwest Research Institute, phone: 210-846-2317, e-mail: justin.bronn at trinity.edu, (Mailing Address) 715 Stadium Drive #342, San Antonio, TX 78212 [Dr. Geoff Crowley, 210-522-3475, gcrowley at swri.edu]. *Research Interests*: Atmospheric Waves, Theoretical Computer Science, Graphical User Interfaces, and Data Visualization. *Instruments, Models, Data Used*: The TIDBIT HFDoppler Radar.

Browning, Richard D., BS April 2004, Embry-Riddle Aeronautical University, Daytona Beach, FL 32114, phone: 386-323-8438, e-mail: browninr at db.erau.edu, richard657 at AOL.com, (Mailing Address) 6710 Leto Drive, Tampa, FL 33619 [Dr. Abas Sivjee, 386-323-6386, sivjee at sprl.db.erau.edu]. *Research Interests*: Planetary Science, Upper Atmospheric Research. *Instruments, Models, Data Used*: Michelson Interferometer, CCD Spectrometer, IDL Analysis/Programming.

Calvo Fernandez, Natalia, BS September 2000, PhD January 2004, Avda/Complutense s/n 28040 Madrid (Spain), phone: 34-91-394-44-56, fax: 34-91-394-51-95, e-mail: nataliac at fis.ucm.es, (Mailing Address) Dpto.Fisica de la Tierra II, Facultad de Fisicas, Universidad Complutense de Madrid, Avda/Complutense s/n 28040 Madrid (Spain) [Ricardo Garcia Herrera, 34-91-394-44-90, rgarcia at 6000aire.fis.ucm.es]. *Research Interests*: Climatology, Tropospheric and Stratospheric interchanges, ENSO phenomenon, Climate reconstruction. *Instruments, Models, Data Used*: MSU temperatures, NCEP-NCAR reanalysis, IDL environment.

Cheng, Zhenggang, PhD 2005, Duke University, ECE Department, Box 90291, Durham, NC 27708, phone: 919-660-5232, e-mail: zc at ee.duke.edu [Steven A. Cummer, 919-660-5256, cummer at ee.duke.edu]. *Research Interests*: lightning and ionospheric remote sensing using VLF/ELF radio atmospherics. *Instruments, Models, Data Used*: the model of spheric propagation with earth-ionosphere waveguide simulation, we use data from NLDN and measured from Duke forest.

Cierpik, Kim, PhD 2003, University of Colorado, Department of Aerospace Engineering Sciences, Campus Box 429, Boulder, CO 80309, phone: 303-735-4238, fax: 303-492-7881, e-mail: kim.cierpik at colorado.edu [Jeffrey Forbes, 303-492-4379, forbes at zeke.colorado.edu]. *Research Interests*: My research involves the development of methodologies to extract dynamical parameters from instruments on the TIMED satellite. Specific issues include aliasing and sampling limitations imposed by the slow orbital precession rate of the

satellite. *Instruments, Models, Data Used*: Initial development and testing involves data from the Kyushu University GCM and data from UARS in conjunction with ground-based radar instruments.

Cionni, Irene, MS, University of L'Aquila, phone: 39-86-297-6300, fax: 39-86-243-3089, e-mail: irene.cionni at aquila.infn.it, irene.gaia at katamail.com [Visconti Guido, 39-86-243-30-75, guido.visconti at aquila.infn.it]. *Research Interests*: none. *Instruments, Models, Data Used*: WACCM and CCM3.

Cline, Michael, BS December 2004, Embry-Riddle Aeronautical University, 600 S. Clyde Morris Boulevard, Daytona Beach, FL 32114, phone: 574-831-4039, e-mail: clinem at erau.edu, mikec at maplenet.net, (Mailing Address) PO Box 145317, Daytona Beach, FL 32114 [Dr. Shiv Aggarwal, 386-226-6706, aggarwal at cts.db.erau.edu, Dr. Abas Sivjee, 386-226-6711, sivjee at db.erau.edu]. *Research Interests*: Space Propulsion Systems, Near Space Environments. *Instruments, Models, Data Used*: Michaelson Interferometer, CCD Spectrometer, IDL Analysis/Programming, upper atmospheric spectral analysis.

Close, Sigrid, PhD 2003, Boston University, 121 Bay State Road, Boston, MA 02215, phone: 508-655-7259, fax: 781-981-4591, e-mail: sigrid at ll.mit.edu, (Mailing Address) 33 Lake Shore Road, Natick, MA 01760 [Meers Oppenheim, 617-353-6139, meerso at bu.edu]. *Research Interests*: meteor physics, equatorial ionospheric physics, MI coupling. *Instruments, Models, Data Used*: Kwajalein Radars (ALTAIR/TRADEX - VHF, UHF, L-band and S-band).

Colerico, Marlene, PhD Spring 2003, Boston University, Center for Space Physics, 725 Commonwealth Avenue Room 506, Boston, MA 02215, phone: 617-353-5611, fax: 617-353-6463, e-mail: colerico at madrigal.bu.edu [Michael Mendillo, 617-353-2629, mendillo at bu.edu]. *Research Interests*: Investigations of the low-latitude ionosphere and thermosphere using all-sky imaging observations. Low-latitude thermospheric modeling. *Instruments, Models, Data Used*: All-sky imaging systems, TIEGCM, SAMI2.

Comberiate, Joseph, PhD May 2005, University of Illinois, 1308 W. Main Street, Urbana, IL 61801, phone: 410-905-0538, e-mail: comberia at uiuc.edu, (Mailing Address) 7202 Meadow Wood Way, Clarksville, MD 21029 [Prof. Farzad Kamalabadi, 217-333-4406, farzadk at uiuc.edu]. *Research Interests*: Remote sensing and imaging, Multi-dimensional signal and image processing, Signal reconstruction and tomography, Ionospheric and space physics. *Instruments, Models, Data Used*: Ground-based spectrometer for ionospheric airglow measurements, GUVI instrument on TIMED satellite, SSUSI instrument on DMSP satellite.

Cook, Rex E., BS December 2003, University of Arizona, 1118 E 4th Street, Tucson, AZ 85721, phone: 520-762-5676, e-mail: rcook at u.arizona.edu, (Mailing Address) 13740 E Greystokes Drive, Vail, AZ 85641 [Phil Erickson, 781-981-5769, pje at haystack.mit.edu]. *Research Interests*: Antenna system monitoring and classification; incoherent scatter radar systems. *Instruments, Models, Data Used*: Millstone Hill UHF incoherent scatter radar system.

Deng, Yue, PhD May 2006, University of Michigan, 2221 Hubbard #2, Ann Arbor, MI 48105, phone: 734-763-4953, e-mail: ydeng at umich.edu [Aaron Ridley, 734-764-5727, ridley at umich.edu]. *Research Interests*: Thermosphere and ionosphere coupling models. *Instruments, Models, Data Used*: TIEGCM.

Drake, Kelly Ann, BS May 2003, University of Texas at Dallas, P.O. Box 830688, Richardson, TX 75083, phone: 972-234-9091, e-mail: kellyp at utdallas.edu, (Mailing Address) 2400 Waterview Parkway #423, Richardson, TX 75080 [Dr. Marc Hairston, 972-883-2826, hairston at utdallas.edu]. *Research Interests*: IMF, cross polar cap potential, ionospheric convection. *Instruments, Models, Data Used*: ACE, DMSP.

Drake, Joel, BS December 2002, Utah State University, Logan, UT 84321, phone: 435-755-6602, e-mail: jrichd at cc.usu.edu, (Mailing Address) 780 E. 1000 N. #12 [Vincent Wickwar]. *Research Interests*: Doppler Free Spectroscopy, K Lidar. *Instruments, Models, Data Used*: none.

Drexler, Josef, PhD June 2004, The University of Western Ontario, London, ON N6A 3L7, Canada, phone: 519-661-2111 ext. 86559, fax: 519-661-2033, e-mail: jdrexler at uwo.ca [J.-P. St.-Maurice, 519-661-3778, jstmauri at uwo.ca]. *Research Interests*: Ionospheric irregularities. *Instruments, Models, Data Used*: none.

Drury, Easan, BS June 2002, University of California/Berkeley, Space Sciences Laboratory, Rm. #337, Centennial Dr. at Grizzly Peak Road, Berkeley, CA 94720, phone: 510-642-2755, e-mail: easan at ssl.berkeley.edu [Dr. Stephen Mende, 510-642-0876, mende at ssl.berkeley.edu, Dr. Robert Lin, 510-642-0561, boblin at ssl.berkeley.edu]. *Research Interests*: Dayside magnetospheric studies correlated to magnetic reconnection and boundary layer processes. Previous work emphasized, auroral transients poleward of the cusp. *Instruments, Models, Data Used*: Used extensive all-sky camera data from the US Automatic Geophysical Observatory, (AGO) stations in Antarctica. Also, analyzed some data from the FUV instrument on, IMAGE.

Durham, Amanda, BS 2004, Embry-Riddle Aeronautical University, Daytona Beach, FL, phone: 386-589-4695, e-mail: hobbess3 at hotmail.com [G.G. Sivjee, 386-226-6711]. *Research Interests*: Interpreting data from spacecraft missions. Interested in anything offered. *Instruments, Models, Data Used*: none.

Dyrud, Lars, PhD 2003, Boston University, 725 Commonwealth Avenue, Boston, MA 02215, phone: 617-905-8698, fax: 617 353 5704, e-mail: ldyrud at bu.edu [Meers Oppenheim, 617-353-6139, meerso at bu.edu]. *Research Interests*: Meteors, Farley-Buneman and gradient drift instability. Auroral ionosphere. *Instruments, Models, Data Used*: IRI, MSIS, ALTAIR, Jicamarca.

Fang, Xiaohua, PhD April 2005, University of Michigan, 2455 Hayward Street #1421, Ann Arbor, MI 48109-2143, phone: 734-647-3485, fax: 734-647-3083, e-mail: xhfang at umich.edu [Michael W. Liemohn, 734-763-6229, liemohn at engin.umich.edu]. *Research Interests*: Solar and magnetospheric inputs to the Mesosphere and Lower Thermosphere-

Ionosphere (MLTI) region. *Instruments, Models, Data Used*: Monte Carlo random walk, two-stream model, TIMED data.

Forbes, Marissa Hagan, BS 2005, Boston University, phone: 303-497-2187, e-mail: maforbes at hao.ucar.edu, (Mailing Address) 2407 Briarwood Drive, Boulder, CO 80305 [Dan Gablehouse, 303-497-1569, rdg at hao.ucar.edu, Stan Solomon, X2179, stans at hao.ucar.edu, Alan Burns, 303-497-2178, aburns at hao.ucar.edu]. *Research Interests*: solar evolution and the sun's cycles. *Instruments, Models, Data Used*: TIMED satellite program.

Gardner, Larry, PhD May 2003, Utah State University, Logan, UT 84322, larry.gardner at usu.edu [Robert W. Schunk, 435-797-2978, schunk at cc.usu.edu]. *Research Interests*: Ionospheric Physics, Upper Polar Atmosphere, Modeling, Data Analysis. *Instruments, Models, Data Used*: none.

Gerken, Elizabeth, PhD March 2003, Stanford University, 350 Serra Mall, David Packard Building, Room 351, Stanford, CA 94305-9515, phone: 650-723-3789, fax: 650-723-9251, e-mail: egerken at stanford.edu [Umran Inan, 650-723-4994, inan at nova.stanford.edu]. *Research Interests*: streamer and diffuse glow dynamics observed in sprites using telescopic imagery, telescopic imagery of heater-induced artificial airglow. *Instruments, Models, Data Used*: telescope, CCD camera, photometer, VLF antenna.

Grubb, Lenora L., BS 2005, Embry-Riddle Aeronautical University, 600 S. Clyde Morris Boulevard, Daytona Beach, FL 32114, phone: 386-226-7305, e-mail: astrolaynegrubb at netscape.net [Dr. G.G. Sivjee, 386-226-6709]. *Research Interests*: Space physics, atmospheric physics, aeronomy. *Instruments, Models, Data Used*: Michelson, CCD, Filter Wheel, Ebert-Fastie Spectrometer, Interferometer, photometer.

Grydeland, Tom, PhD January 2003, Nordlysobservatoriet, Prestvannv. 38, N-9037 Tromsø, Norway, phone: 47-77-64-41-56, fax: 47-77-64-55-80, e-mail: tom.grydeland at phys.uit.no [Cesar La Hoz, 47-77-64-51-61, cesar.la.hoz at phys.uit.no, Tony van Eyken, 1-650-859-3438, tony.van.eyken at eiscat.com]. *Research Interests*: Incoherent scatter radar, plasma instabilities, plasma lines, developing new radar technology for improved radar observations. *Instruments, Models, Data Used*: EISCAT mainland radars, EISCAT Svalbard Radar (ESR), Heater, Millstone Hill IS Radar.

Hei, Matthew A., PhD May 2003, University of Texas at Dallas, Mail Stop FO22, PO Box 830688, Richardson, TX 75083-0688, phone: 972-671-8206, e-mail: matthei at utdallas.edu [Roderick A. Heelis, 972-883-2822, heelis at utdallas.edu, Phil McClure, mcclure at utdssa. utdallas.edu]. *Research Interests*: Equatorial plasma irregularities, plasma physics, remote sensing. *Instruments, Models, Data Used*: DMSP F10, F11, and AE-E satellite data, SUPIM ionospheric model.

Herron, Joshua, PhD 2004, Utah State University, 4405 Old Main Hill, Logan, UT 84322, phone: 435-797-3350, fax: 435-797-2992, e-mail: joshua.herron at cc.usu.edu, (Mailing Address) 157 W 200 N #2, Logan, UT 84321 [Vincent Wickwar, 435-797-3461, wickwar at aeronomy.cass.usu.edu]. *Research Interests*: Rayleigh and Resonance Lidar. *Instruments, Models, Data Used*: Rayleigh Lidar.

Holder, Joel G., BS Spring 2005, Embry-Riddle Aeronautical University, 600 S. Clyde Morris Boulevard, Daytona Beach, FL 32114, phone: 770-920-2567, e-mail: starhumper at hotmail.com, mholder at attbi.com, (Mailing Address) 4620 Fox Hollow Court, Douglasville, GA 30135 [G. G. Sivgee, 386-226-6710]. *Research Interests*: Upper atmosphere. *Instruments, Models, Data Used*: Michellson Interferometer CCD, Fabry Perot Interferometer.

Holmes, Jeffrey, PhD May 2005, University of Alaska/Fairbanks, Physics Department, 900 Yukon Drive Suite 128, Fairbanks, AK 99775, phone: 907-474-6795, e-mail: pug at croutonmountain.org [Mark Conde, 907-474-7347, mark.conde at gi.alaska.edu]. *Research Interests*: Sporadic Sodium Layers, Na Lidar, ground-based daytime imaging, ionospheric tomography. *Instruments, Models, Data Used*: Fabry-Perot spectrometer, Na lidar.

Hou, Tao, MS December 2002, University of Alaska/Fairbanks, Geophysical Institute, 903 Koyukuk Drive P.O. Box 757320, Fairbanks, AK 99775-7320, phone: 907-474-7578, e-mail: fthh at uaf.edu, (Mailing Address) P.O. Box 750998 [Dr. Richard Collins, 907-474-7607, rlc at gi.alaska.edu]. *Research Interests*: Fe Resonant lidar for middle atmosphere studies. *Instruments, Models, Data Used*: Lambda Physik Excimer-Dye laser, Raw data measured at Poker Flat research range.

Hu, Wenyi, PhD, Duke University, 130 Hudson Hall, Durham, NC 27705, phone: 919-660-5232, e-mail: wyhu at ee.duke.edu [Steven A. Cummer, 919-660-5256, cummer at ee.duke.edu]. *Research Interests*: Sprite and lightning, ionosphere, remote sensing and numerical analysis. *Instruments, Models, Data Used*: ELF receiver, earth-ionosphere waveguide model.

Huang, Tai-Yin, PhD 1997, Clemson University, Department of Physics and Astronomy, Clemson, SC 29634-0978, phone: 864-656-4631, fax: 864-656-0805, e-mail: thuang at hubcap.clemson.edu [Tai-Fu Tuan, 513-556-0529, tai-fu.tuan at uc.edu, Michael Hickey, 864-656-4275, hickey at hubcap.clemson.edu]. *Research Interests*: Gravity waves, airglow, temperature inversion layer, theoretical modelling and numerical simulations. *Instruments, Models, Data Used*: Full-Wave model, 2D OH Chemistry models, HWM, MSIS-90, data from ALOHA-93 Campaign, WINDII, Starfire.

Hunt, Stephen, PhD October 2005, Boston University, 725 Commonwealth Avenue, Boston, MA 02215, phone: 508-981-0856, e-mail: sorion at bu.edu [Meers Oppenheim, 617-353-6139, meerso at bu.edu]. *Research Interests*: Meteor Physics, Solar Terrestrial Physics. *Instruments, Models, Data Used*: none.

Iimura, Hiroyuki, PhD 2005, University of Colorado, PO Box 429, Boulder, CO 80309, phone: 303-735-4238, fax: 303-429-7881, e-mail: iimurah at colorado.edu [Scott Palo, 303-492-4289, palo at odo.colorado.edu]. *Research Interests*: meteor radar. *Instruments, Models, Data Used*: Platteville, meteor radar data.

Inoue, Kanzan, PhD December 2003, University of Texas at Dallas, P.O. Box 830688, Richardson, TX 75083-0688, phone: 972-245-4455, e-mail: kzinoue at utdallas.edu,

kaninoue at yahoo.com, (Mailing Address) 2212 Sheraton Drive, Carrollton, TX 75007 [Tinsley, 972-883-2838, tinsley at utdallas.edu]. *Research Interests*: clouds and ice formation mechanisms. *Instruments, Models, Data Used*: none.

Janches, Diego, PhD 2000, Pennsylvania State University, 323 EE East, University Park, PA 16802, phone: 787-878-2612, fax: 787-878-1861, e-mail: djanches at naic.edu, (Mailing Address) Arecibo Observatory, HC3 Box 53995, Arecibo, PR 00612 [John D. Mathews, 814-238-1089, jdmathews at psu.edu]. *Research Interests*: radar meteor research, ionosphere. *Instruments, Models, Data Used*: 430/48 MHz Arecibo Radar, Na/K/Fe/Ca Lidars, 930 MHz EISCAT Tristatic Radar System.

Jee, Geonhwa, PhD December 2003, Utah State University, 4405 Old Main Hill, Logan, UT 84322-4405, phone: 435-797-2939, e-mail: sspkj at gaim.cass.usu.edu [Robert W. Schunk, 435-797-2962, schunk at cc.usu.edu]. *Research Interests*: Neutral wind effects on the ionosphere. *Instruments, Models, Data Used*: HWM, MSISE, IFM, TOPEX TEC data.

Johnson, Eric, PhD 2005, University of Texas at Dallas, PO Box 830688, Richardson, TX 75083-0688, e-mail: ejohnson at utdallas.edu [Dr. R. A. Heelis, 972-883-2822, heelis at utdallas.edu]. *Research Interests*: none. *Instruments, Models, Data Used*: none.

Kao, Chi-Feng (Daniel), BS December 2002, National Astronomy and Ionospheric Center, 504 Space Sciences Building, Ithaca, NY 14853-6801, phone: 814-777-4958, e-mail: dxk35 at psu.edu, (Mailing Address) Attn: Dr. Craig Tepley, Arecibo Observatory, Optical Sciences Department, HC3 Box 53995, Arecibo, PR 00612 [Dr. Craig Tepley, 787-878-2612, craig at naic.edu]. *Research Interests*: Fiber optics, Photonics, and Optical Remote Sensing. *Instruments, Models, Data Used*: High Spectral Resolution Lidar, Iodine Vapor Notch Filtering, Doppler-Free Spectroscopy, FP-OSAs, OSAs, ESAs, National Instruments Data-Acquisition HARDWARE, NI Labview.

Kawahara, Takuya, PhD 1995, Colorado State University, Fort Collins, CO 80523, phone: 970-491-5646, fax: 970-491-7947, e-mail: kawahara at lamar.colostate.edu [Joe She, 970-491-6261, joeshe at lamar.colostate.edu]. *Research Interests*: Dynamics of mesopause region, especially in polar region. *Instruments, Models, Data Used*: temperature lidar, data taken in Antarctica.

Kolatkar, Aditi, MS June 2004, University of Alaska/Fairbanks, Electrical Engineering Department, PO Box 757520, Fairbanks, AK 99775, phone: 907-474-5738, e-mail: ftabk at uaf.edu, (Mailing Address) 1128 Hess Avenue, Apt# 9, Fairbanks, AK 99709 [Denise Thorsen, 907-474-7052, ffdt at uaf.edu]. *Research Interests*: Embedded System Design, Radar Systems, Middle Atmosphere Dynamics, Remote Sensing. *Instruments, Models, Data Used*: Platteville MF radar, Poker Flat MF Radar, Christmas Island Meteor Radar.

Kwak, Young-Sil, PhD, Kyungpook National University, Daegu 702-701, Korea, phone: 82-53-950-5920, fax: 82-53-950-6359, e-mail: ys-kwak at hanmail.net [Byung-Ho Ahn, 82-53-950-5920, bhahn at knu.ac.kr]. *Research Interests*: Thermosphere-ionosphere electro-dynamics. *Instruments, Models, Data Used*: Incoherent Scatter Radar, TIE-GCM

(Thermosphere-Ionosphere Electrodynamics General Circulation Model), CEDAR database.

Leko, John, PhD May 2002, University of Alabama/Huntsville, CSPAR Technology Hall Room S-118, Huntsville, AL 35899, phone: 256-824-5140, fax: 256-824-6575, e-mail: lekoj at cspar.uah.edu, (Mailing Address) 1503 Sparkman Drive S-146, Huntsville, AL 35816 [Dr. P. G. Richards, 256-824-6088, richardsp at cspar.uah.edu]. *Research Interests:* Modeling of atmospheres including, but not limited to, the physics, chemistry, and dynamics of planetary and extra-planetary bodies, Orbital characterization of gravity waves, Validation of atmospheric data sets. *Instruments, Models, Data Used:* Data Used: ATLAS-I ISO, SAGE II, MSX/UVISI IVW, Bear Lake Observatory airglow imager, Models: MSIS 86 & 90E, Garcia and Solomon [JGR, 1985], linearized gravity wave.

Li, Tao, PhD 2005, Colorado State University, Fort Collins, CO 80523-1875, phone: 970-491-3362, e-mail: taoli at lamar.colostate.edu [Prof. Chiao-Yao She, 970-491-6261, joeshe at lamar.colostate.edu]. *Research Interests:* Na lidar, Imager, Raman lidar and Mie lidar. *Instruments, Models, Data Used:* none.

Lichstein, Gilbert, PhD August 2003, University of Colorado, Department of Aerospace Engineering Sciences, Campus Box 429, Boulder, CO 80309, phone: 303-735-3154, e-mail: lichstei at odo.colorado.edu [Jeffrey Forbes, forbes at odo.colorado.edu]. *Research Interests:* ionospheric dynamo, mlt dynamics, waves, tides, numerical simulation. *Instruments, Models, Data Used:* IRI, MSIS90E, SDM (Spectral Dynamics Model).

Lin, Charles, PhD, Chung-Li, Taiwan, High Altitude Observatory/NCAR, P.O. Box 3000, Boulder, CO 80307, phone: 303-497-1571, fax: 303-497-1589, e-mail: clin at ucar.edu [Art Richmond, 303-497-1570, richmond at hao.ucar.edu, Jann-Yenq Liu, 886-3-22-7151 x5763, jyliu at ss.ncu.edu.tw, Ming-Quey Chen, 886-3-22-7151 x5770, cmq at ss.ncu.edu.tw]. *Research Interests:* Low-Latitude Ionosphere coupling with Plasmasphere, Geo-magnetic storm effects on low latitude ionospheric plasma density, electrodynamics and plasma temperature. *Instruments, Models, Data Used:* Model: Thermosphere-Ionosphere Electrodynamics General Circulation Model (TIEGCM) and Sheffield University Plasma-sphere-Ionosphere Model (SUPIM), Instruments: GPS total electron content measurement. Ionospheric radar sounders (IPS, DPS).

Liu, Ningyu, PhD August 2006, The Pennsylvania State University, 204 Electrical Engineering East, University Park, PA 16802-2705, phone: 814-865-2776, e-mail: nul105 at psu.edu, (Mailing Address) Ningyu Liu, 411 Waupelani Drive Apt#B315, State College, PA 16801 [Victor P. Pasko 814-865-3467, vpasko at psu.edu]. *Research Interests:* streamer and sprites modeling, atmospheric electrodynamics and computational plasma physics and electromagnetics. *Instruments, Models, Data Used:* convection-diffusion model and fractal model.

Loughmiller, Pamela, PhD 2004, Cornell University, 351 Rhodes Hall, Ithaca, NY 14850, phone: 607-255-8298, fax: 607-255-6236, e-mail: demi at ece.cornell.edu [Michael C. Kelley, 607-255-7425, mikek at ece.cornell.edu]. *Research Interests:* mesospheric bores,

airglow, mesospheric dynamics, low frequency animal communication. *Instruments, Models, Data Used*: allsky imager, airglow images, MSIS, CIRA.

Lu, Fei, PhD May 2003, Cornell University, Ithaca, NY 14853, phone: 607-255-8298, fax: 607-255-6236, e-mail: lufei at ee.cornell.edu [Don Farley, 607-2557121, donf at ee.cornell.edu]. *Research Interests*: plasma instabilities in the equatorial electrojet. *Instruments, Models, Data Used*: using Jicamarca data.

Mackler, David, BS April 2002, Embry-Riddle Aeronautical University, 600 S. Clyde Morris Boulevard, Daytona Beach, FL 32114, phone: 386-255-6797, e-mail: macklerd at erau.edu, (Mailing Address) 500 Jimmy Ann Drive #228, Daytona Beach, FL 32114 [Dr. Abas Sivjee, 386-226-6711, sivjee at db.erau.edu]. *Research Interests*: Space Physics, Quantum Gravity. *Instruments, Models, Data Used*: Michealson spectrometer: Hydroxyl (3,1) and (4,2) emissions, CCD spectrometer: Mon-atomic oxygen, nitrogen first positive, and nitrogen meinel emissions, Fabry-Perot interferometer: Airglow emissions.

Makela, Jonathan, PhD 2002, Cornell University, Ithaca, NY 14853, phone: 607-255-8298, e-mail: jjm20 at cornell.edu [Michael C. Kelley, 607-255-7425, mikek at ece.cornell.edu]. *Research Interests*: Ionospheric Airglow, GPS derived TEC, Satellite Based Imaging. *Instruments, Models, Data Used*: Allsky & Narrowfield Imagers, Dual-Frequency GPS receivers, single-frequency GPS scintillation monitors, MSIS, IRI, DMSP.

Martin, Jeffrey, BS December 2002, Miami University, Kreger 147, Oxford, OH 45056, phone: 513-289-7659, fax: 513-529-1454, e-mail: martinjd at muohio.edu [Y. T. Jade Morton, 513-529-6070, mortonyt at muohio.edu]. *Research Interests*: Radar remote sensing of the Earth's upper atmosphere, neural network. *Instruments, Models, Data Used*: Arecibo Incoherent Scatter Radar, National Geophysical Data Center's solar index data.

Martinez, Lisandro Marcelo, BS 2005, Embry-Riddle Aeronautical University, Physical Science Department, Space Physic Research Laboratory, 600 S. Clyde Morris Boulevard, Daytona Beach, FL, phone: 386-226-6710, fax: 386-226-6713, e-mail: lisandromartinez at hotmail.com, martinel at sprl.db.erau.edu [Dr. G.G. Sivjee]. *Research Interests*: Aeronomy atmospheric physics, space physics. *Instruments, Models, Data Used*: Michelson Interferometer, CCD Spectrometer, Filter Wheel, Ebert-Fastie Photometer.

Martinez, Mayra M., PhD August 2002, University of Alabama/Huntsville, CSPAR/ Technology Hall S-118, Huntsville, AL 35899, phone: 256-824-5140, fax: 256-824-6575, e-mail: martinezm at cspar.uah.edu, (Mailing Address) 1503 Sparkman Drive S-146, Huntsville, AL 35816 [Dr. Phil Richards, 256-824-6433, richards at cs.uah.edu]. *Research Interests*: thermospheric winds, global modeling, aurora. *Instruments, Models, Data Used*: HWM-90.

Martinis, Carlos, PhD 2003, Boston University, phone: 617-353-5258, fax: 617-353-6463, e-mail: martinis at vega.bu.edu [Michael Mendillo, 617-353-2629, mendillo at bu.edu]. *Research Interests*: Equatorial Ionosphere, Airglow depletions, E and F-region electro-dynamics. Comparative aeronomy in the solar system. *Instruments, Models, Data Used*:

All-sky Imager; Fabry-Perot Interferometer; GPS; DMSP, MSIS, TIEGCM, HWM-90, PIM.

Maruyama, Naomi, PhD September 2002, Hokkaido University, Kita-ku, Sapporo, Japan, 060-0810, phone: 81-11-706-3565, fax: 81-11-746-2715, e-mail: naomi at ep.sci.hokudai.ac.jp [Shigeto Watanabe, 81-11-706-2757, shw at ep.sci.hokudai.ac.jp]. *Research Interests:* Response of the global I-T system to geomagnetic storms and substorms, Equatorial electrodynamics and its role in the equatorial I-T system, Equatorial ionospheric irregularities. *Instruments, Models, Data Used:* 3-dimensional, global coupled Ionosphere-Thermosphere model.

Matsuo, Tomoko, PhD December 2002, State University of New York, Stony Brook, NY 11794-5000, USA, phone: 303-497-1571, fax: 303-497-1589, e-mail: tmatsuo at ucar.edu, (Mailing Address) High Altitude Observatory, National Center for Atmospheric Research, Boulder, Colorado 80307-3000 [Arthur D. Richmond, 303-497-1570, richmond at ucar.edu, Marvin A. Geller, 631-632-8701, mgeller at notes.cc.sunysb.edu]. *Research Interests:* upper atmosphere dynamics, magnetosphere-ionosphere coupling, general circulation modeling, and, data assimilation. *Instruments, Models, Data Used:* Models: AMIE, CTIM, TIEGCM, Data: DE-2 IDM RPA LAPI, POLAR UVI, ground magnetometer, DMSP, HF radar, IS radar.

Merkel, Aimee, PhD August 2002, University of Colorado, 1243 Innovation Drive, Boulder, CO 80303, phone: 303-492-3264, e-mail: aimee.merkel at colorado.edu [Dr. Gary Thomas, 303-492-7022, gary.thomas at lasp.colorado.edu]. *Research Interests:* My research interests include instrumentation and atmospheric science. I am specifically interested in Polar Mesospheric Clouds, including the forcing dynamics and seasonal and long-term variability. *Instruments, Models, Data Used:* I designed, built and integrated the Ultraviolet Spectrometer on the Student Nitric Oxide Explorer (SNOE). I have been working with the SNOE dataset since launch in March 1998. I also developed a Rayleigh scattering atmospheric model used in processing the SNOE nitric oxide database.

Mierkiewicz, Edwin, PhD July 2002, University of Wisconsin/Madison, Department of Physics, 1150 University Avenue, Madison, WI 53706, phone: 608-262-1137, e-mail: emierk at wisp.physics.wisc.edu [Fred Roesler, 608-262-1137, roesler at wisp.physics.wisc.edu]. *Research Interests:* Geocoronal Hydrogen, Airglow, Planetary Atmospheres. *Instruments, Models, Data Used:* Fabry-Perot Spectrometers, LYAO_RT.

Milla, Marco Antonio, MS December 2002, Av. Universitaria cdra. 18, San Miguel, AP 1761, Lima 100, Perú, phone: 51-1-3560055, fax: 51-1-4344563, e-mail: marco at jro.igp.gob.pe, (Mailing Address) Radio Observatorio de Jicamarca, Apartado 13-0207, Lima 13, Perú [Dr. Jorge Luis Chau, 51-1-3560055, chau at geo.igp.gob.pe]. *Research Interests:* Atmospheric/Ionospheric Data Processing, Equatorial Ionospheric Region Radar Measurements, Coherent Scattering Techniques, Incoherent Scattering Techniques. *Instruments, Models, Data Used:* Jicamarca Incoherent Scatter Radar, JULIA Radar data, Paracas-Jicamarca Bi-static Radar data, NCAR/NCEP Reanalysis Winds Data.

- Morsony, Brian**, BS December 2002, University of California/Berkeley, Department of Physics, Berkeley, CA 94720-7300, phone: 510-848-5310, e-mail: bmorsony at ssl.berkeley.edu [Stephen Mende, 510-642-0876, mende at ssl.berkeley.edu, Thomas Immel, 510-643-3504, immel at ssl.berkeley.edu]. *Research Interests*: Auroral Dynamics, Space Physics. *Instruments, Models, Data Used*: FUV experiment on IMAGE satellite.
- Moser, Danielle**, BS May 2003, Arecibo Observatory/University of Illinois, HC3 Box 53995, Arecibo, PR 00612, fax: 787-878-1861, e-mail: demoser at uiuc.edu [Diego Janches, 787-878-2612 x253, djanches at naic.edu]. *Research Interests*: micrometeors; chondrule formation. *Instruments, Models, Data Used*: none.
- Moudry, Dana**, PhD 2002, University of Alaska/Fairbanks, Fairbanks, AK 99775-7320, phone: 907-474-7410, fax: 907-474-7290, e-mail: drm at gi.alaska.edu [Dave Sentman, 907-474-6442, dsentman at gi.alaska.edu]. *Research Interests*: mesosphere, optical emissions above active thunderstorms. *Instruments, Models, Data Used*: television-rate imagers, high speed imagers.
- Mutiso, Charles**, BS Spring 2004, Embry-Riddle Aeronautical University, 600 S. Clyde Morris Boulevard, Daytona Beach, FL 32114, phone: 386-383-1120, e-mail: mutisoc at erau.edu, (Mailing Address) PO Box 143132, Daytona Beach, FL 32114 [Dr. Abas Sivjee, 386-226-6711, sivjee at sprl.db.erau.edu]. *Research Interests*: Space Physics, quantum physics, nanotechnology, lasers. *Instruments, Models, Data Used*: Michelson Interferometers, Fabry-Perot spectrometers.
- Neary, Patrick L.**, BS May 2003, Utah State University, 4405 Old Main Hill, Logan, UT 84322, phone: 435-797-2961, e-mail: slv2k at cc.usu.edu [Dr. Wickwar]. *Research Interests*: Instrumentation & control systems. *Instruments, Models, Data Used*: none.
- Nelson, Karen L. M.**, MS December 2002, Utah State University, 4405 Old Main Hill, Logan, UT 84322-4405, phone: 435-797-3425, e-mail: ddlsr at yahoo.com [Vince Wickwar, wickwar at control.cass.usu.edu]. *Research Interests*: Middle Atmosphere/Mesosphere, Dynamics (esp. tides, planetary waves, gravity waves, etc.). *Instruments, Models, Data Used*: none.
- Nicolls, Michael**, BS June 2003, Cornell University, phone: 607-255-8298, e-mail: mjn25 at cornell.edu [Michael Kelley, 607-255-4844, mikek at ece.cornell.edu]. *Research Interests*: none. *Instruments, Models, Data Used*: none.
- Nielsen, Kim**, MS July 2002, University of Alaska/Fairbanks, Physics Department, P.O. Box 755920, Fairbanks, AK 99775-5920, phone: 907-474-7339, fax: 907-474-6130, e-mail: ftksn1 at uaf.edu, (Mailing Address) 1029 O'Brien Street Cabin #2, Fairbanks, AK 99709 [Hans C. Stenbaek-Nielsen, hans.nielsen at gi.alaska.edu, Dirk Lummerzheim, lumm at gi.alaska.edu]. *Research Interests*: Atomic and molecular physics, Space Physics, and physics education. Development of software to analyze data and operate instruments. Real-time programming.. *Instruments, Models, Data Used*: Imaging Spectrograph (Boston University), Meridian Scanning Photometer (MSP) (Poker Flat), All-sky imager (Poker Flat), and VHF radar (ELmendorf AFB, Anchorage).

Nikoukar, Romina, PhD May 2005, University of Illinois, 1308 W. Main Street, Urbana, IL 61801, phone: 217-333-2931, e-mail: nikoukar at uiuc.edu, (Mailing Address) 2032 Orchard Street Apt. D, Urbana, IL 61801 [Prof. Farzad Kamalabadi, 217-333-4406, farzadk at uiuc.edu]. *Research Interests*: Remote sensing and imaging, Multi-dimensional signal and image processing, Signal reconstruction and tomography Ionospheric and space physics. *Instruments, Models, Data Used*: Ground-based spectrometer for ionospheric airglow measurements.

Nsumei, Patrick, PhD 2004, University of Massachusetts/Lowell, One University Avenue, Lowell, MA 01854, phone: 978-934-4913, e-mail: patrick_nsumei at student.uml.edu, (Mailing Address) Center for Atmospheric Research, UMASS Lowell, 600 Suffolk Street, Lowell, MA 01854 [Bodo Reinisch, 978-934-4903, bodo_reinisch at uml.edu]. *Research Interests*: Electron Density Distribution over the polar region. *Instruments, Models, Data Used*: Radio Plasma Imager (RPI) onboard the IMAGE satellite.

Olsen, Christian, BS 2004, Utah State University, Physics Department, 4415 Old Main Hill, Logan, UT 84322-4415, phone: 435-752-6984, fax: 435-797-2492, e-mail: lorenzo at cc.usu.edu, (Mailing Address) 3572 W 2200 S, Young Ward, UT 84339 [Michael Taylor, 435-797-3919, mtaylor at cc.usu.edu]. *Research Interests*: Atmospheric studies and mechanics, mainly graviton waves. I am also interested in particle and nuclear physics. *Instruments, Models, Data Used*: Different high resolution cameras to obtain nighttime airglow data.

Pan, Weilin, PhD July 2002, University of Illinois, 1308 W. Main Street, Urbana, IL 61801, phone: 217-333-4155, fax: 217-333-4303, e-mail: pan at conrad.csl.uiuc.edu, (Mailing Address) 302 W. Locust Street #8, Urbana, IL 61801 [Chester Gardner, 217-333-3077, cgardner at uillinois.edu]. *Research Interests*: High-latitude middle atmosphere dynamics. *Instruments, Models, Data Used*: Fe Boltzmann temperature lidar.

Park, Mijeong, PhD February 2003, Seoul National University, School of Earth and Environmental Sciences, San 56-1, Shillim-dong, Gwanak-gu, Seoul, 151-742, South Korea, phone: 82-2-880-8177, fax: 82-2-872-8824, e-mail: marciap at ucar.edu [Wookap Choi (Seoul National University), now at Goddard Earth Science and Technology Center, 410-455-8812, wchoi at umbc.edu, and William J. Randel (at NCAR), 303-497-1439, randel at ucar.edu]. *Research Interests*: middle atmospheric dynamics, tracer transports in the stratosphere, monsoon. *Instruments, Models, Data Used*: HALOE methane and water vapor.

Peshave, Manasi, MS June 2004, University of Alaska/Fairbanks, PO Box 757520, Fairbanks, AK 99775, phone: 907-474-5678, e-mail: ftmap at uaf.edu, (Mailing Address) 1128 Hess Avenue, Apt#9, Fairbanks, AK 99709 [Dr. Richard Collins, 907-474-7607, rlc at gi.alaska.edu]. *Research Interests*: Embedded systems Design. Resonant Lidars for Atmosphere studies. *Instruments, Models, Data Used*: Lambda Physik excimer laser, Raw data measured at Poker Flat Research range.

Peter, William, MS June 2002, Stanford University, 161 Packard Building, 350 Serra Mall, Stanford, CA 94305-9505, phone: 650-468-8403, e-mail: wpeter at stanford.edu, (Mailing Address) 796 Escondido Road, Rains, # 26-G [Umran Inan, 650-723-4994, inan at nova.stanford.edu]. *Research Interests*: The effect of lightning on the ionosphere. The study of whistlers, Early/Fast events, and lightning induced electron precipitation. *Instruments, Models, Data Used*: The HAIL array is 13 antennas set up across the state of Colorado. It measures VLF signals and I analyze the changes in the earth-ionosphere waveguide from this data. Mode analysis and LWPC models are used.

Ramos, Camilo, PhD 2004, Cornell University, School of Electrical and Computer Engineering, 306 Rhodes Hall, Ithaca, NY 14853, phone: 607-255-8298, e-mail: camilor at ece.cornell.edu [Michael C. Kelley, mikek at ece.cornell.edu]. *Research Interests*: Polar Summer Mesosphere. *Instruments, Models, Data Used*: HIPAS, HAARP, Poker Flat.

Ray, Licia, BS May 2003, Boston University, 725 Commonwealth Ave, Boston, MA 02215, phone: 617-353-1520, fax: 617-353-5704, e-mail: lcray at bu.edu [Meers Oppenheim, 617-353-6139, meerso at bu.edu]. *Research Interests*: Meteor trails and Farley-Buneman instabilities in the ionosphere. *Instruments, Models, Data Used*: IRI, MSIS.

Remick, Karen, PhD 2004, University of Alaska/Fairbanks, Fairbanks AK, phone: 907-474-7578, e-mail: ftkjr at uaf.edu, (Mailing Address) 1552 21st Avenue #11, Fairbanks, AK 99701 [Roger Smith, 907-474-7282, bblw at gi.alaksa.edu]. *Research Interests*: Ion up/outflow. *Instruments, Models, Data Used*: Data from SRI's Sondrestrom and EISCAT's Tromso and Svalbard, incoherent scatter radars, and magnetometer data.

Reynolds, Amber Elizabeth, BS May 2004, Pennsylvania State University, 503 Walker Building, University Park, PA 16802, phone: 814-880-3255, fax: 607-724-7546, e-mail: aer149 at psu.edu, (Mailing Address) 134 Iris Drive, Binghamton, NY 13905 [Jonathan Merritt, 25 Deike Building, University Park, PA 16802-2709]. *Research Interests*: tornadoes, suction vortices. *Instruments, Models, Data Used*: none.

Rhoden, Eric, PhD 2002, University of Colorado, Department of Aerospace Engineering Sciences, Campus Box 429, Boulder, CO 80309, phone: 303-735-4238, fax: 303-492-7881, e-mail: rhoden at colorado.edu [Jeffrey Forbes, 303-492-4359, forbes at zeke.colorado.edu]. *Research Interests*: My research focuses on improving the accuracy of satellite ephemeris prediction through better understanding, specification, forecasting, and modeling of the global structure of upper atmosphere density. *Instruments, Models, Data Used*: Jacchia and MSIS atmospheric density models, Geomagnetic and Solar Proxy indices, NORAD/ USSPACECOM Element sets and SETA density data, General and Special Perturbations Orbit Determination Models.

Roddy, Patrick, PhD 2005, University of Texas at Dallas, PO Box 830688, Richardson, TX 75083, phone: 469-569-7175, e-mail: roddy at utdallas.edu [Greg Earle, 972-883-6828, earle at utdallas.edu]. *Research Interests*: Neutral winds in the E & F regions, Descending E layers, Equatorial spread-F. *Instruments, Models, Data Used*: Upcomming C/NOFS sat. neutral wind meters.

Rodgers, Martin, BS May 2003, Miami University, School of Engineering and Applied Science, Oxford, OH 45056, phone: 513-664-4945, fax: 513-529-1454, e-mail: rodgermp at muohio.edu, (Mailing Address) 637 Brooke Lane, Bay Village, OH 44140 [Dr. Qihou Zhou, 1-787-878-2612 x258, zhou at naic.edu]. *Research Interests: Research Interest:* Using the Arecibo incoherent scatter radar to study the morphology of, sporadic E's. *Instruments, Models, Data Used:* Arecibo incoherent scatter radar data.

Rogal, Marek, PhD 2005, University of Wisconsin/Madison, Atmospheric and Oceanic Sciences Department, 1225 W. Dayton Street Room 1317, Madison, WI 53706, phone: 608-262-0781, e-mail: mjrogal at students.wisc.edu [Prof. Matthew H. Hitchman, 608-262-4653, matt at aos.wisc.edu]. *Research Interests:* Stratosphere and Mesosphere global meso to global scale dynamics. *Instruments, Models, Data Used:* 3D Stratosphere Mesosphere Model (development of UKMO H2O model). UKMO data.

Roy, Kaushik, MS December 2002, University of Illinois, 1406 West Green Street, Urbana, IL 61801, phone: 217-398-8753, e-mail: kroy1 at uiuc.edu [Erhan Kudeki, 217-333-4153, e-kudeki at uiuc.edu]. *Research Interests:* remote sensing, digital signal processing, incoherent scatter radar, inversion/fitting of incoherent scatter data. *Instruments, Models, Data Used:* ISR spectrum data from Arecibo Observatory.

Russell, Albert T., PhD August 2002, University of Western Ontario, London, Ontario, Canada, N6A 3K7, phone: 519-661-2111, x86444, e-mail: atrussel at uwo.ca [J.-P. St.-Maurice, 519-661-3778, jstmauri at uwo.ca, R. J. Sica, 519-661-3521, sica at uwo.ca]. *Research Interests:* thermospheric modeling. *Instruments, Models, Data Used:* UWO Thermospheric Model.

São Sabbas, Fernanda T., PhD September 2003, University of Alaska/Fairbanks, Fairbanks, AK, phone: 907-474-7410, fax: 907-474-7290, e-mail: fssabbas at gi.alaska.edu [Davis D. Sentman, 907-474-6442, dsentman at gi.alaska.edu]. *Research Interests:* Optical, electrical, chemical and other effects of lightning, in the middle and upper atmosphere, artificially excited airglow, neutral atmosphere-ionosphere interaction processes. *Instruments, Models, Data Used:* Low light level video images of sprites and artificially, excited airglow, lightning data from the National Lightning, Detection Network (NLDN), GOES satellite imagery.

Sharma, Niranjana, PhD Fall 2003, University of Colorado, Department of Aerospace Engineering Sciences, Boulder, CO 80309-0429, phone: 303-735-3154, fax: 303-492-7881, e-mail: sharma at colorado.edu [Dr. Jeffrey Forbes, 303-492-4359, jeffrey.forbes at colorado.edu]. *Research Interests:* Atmospheric Modeling. *Instruments, Models, Data used:* Spectral Dynamics Model (SDM).

Sherman, James P., PhD July 2002, Colorado State University, Physics Department, Fort Collins, CO 80523, phone: 970-207-0219, fax: 970-491-7947, e-mail: jsherman at lamar.colostate.edu [Chaio She, 970-491-6261, joeshe at lamar.colostate.edu]. *Research Interests:* LIDAR measurements of mesopause region. *Instruments, Models, Data Used:* Na fluorescence lidar system.

Shume, Esayas B., PhD May 2005/6, Cornell University, Department of Earth and Atmospheric Sciences, Ithaca, NY 14853, phone: 607-255-8481, e-mail: ebs27 at cornell.edu (Mailing Address) same as above [David L. Hysell, daveh at geology.cornell.edu]. *Research Interests:* Plasma Turbulence in the equatorial topside ionosphere. *Instruments, Models, Data Used:* AEE-E satellite data, Plasma flow model.

Siegel, Robert D., MS May 2004, Pennsylvania State University, Electrical Engineering Department, 130 E.E. East, University Park, PA 16802, phone: 610-252-0077, e-mail: rds182 at psu.edu, (Mailing Address) 3413 Bridlepath Road, Easton, PA 18045 [Tim Kane, 814-863-8727, tj7 at psu.edu]. *Research Interests:* Ionospheric and Mesospheric winds, plasma measurements in atmosphere, and rocket payload instrumentation. *Instruments, Models, Data Used:* vacuum chambers, langmuir probes, plasma sources.

Snively, Jonathan, MS May 2003, Pennsylvania State University, Department of Electrical Engineering, 118 EE East, University Park, PA 16802, phone: 814-234-8298, e-mail: jbs231 at psu.edu [Dr. Victor Pasko, 814-865-3467, vpasko at psu.edu]. *Research Interests:* Mesospheric gravity waves generated by, tropospheric convection. *Instruments, Models, Data Used:* Numerical simulations describing gravity wave propagation.

Stern, Tim, BS December 2003, University of Alaska/Fairbanks, Geophysical Institute, 903 Koyukuk Drive, P.O. Box 757320, Fairbanks, AK 99775-7320, phone: 907-474-5678, e-mail: timestern at hotmail.com, (Mailing Address) 1070 Amanita Road, Fairbanks, AK 99712 [Dr. Richard Collins, 907-474-7607, rlc at gi.alaska.edu]. *Research Interests:* High latitude studies of mesospheric sodium and iron. *Instruments, Models, Data Used:* Excimer and Dye Lasers, Lidar photon count data obtained at Poker Flat Research Range.

Stromme, Anja, PhD December 2003, SRI International, Centre for Geospace Studies, 333 Ravenswood Avenue, Menlo Park, CA 94025, on leave from: Auroral Observatory, University of Tromso, 9037 Tromso, NORWAY, phone: 650-859-2298, fax: 650-322-2318, e-mail: anja.stromme at sri.com, anja at phys.uit.no [Unni Pia Lovhaug, 47-77-64-62-92, unni at phys.uit.no]. *Research Interests:* Non maxwellian ionospheric plasma physics. *Instruments, Models, Data Used:* Incoherent Scatter Radars (EISCAT, Sondrestrom).

Tal, Amir, BS April 2004, Embry-Riddle Aeronautical University, Physical Science Department, 600 S. Clyde Morris Boulevard, Daytona Beach, FL 32114, phone: 386-290-4049, e-mail: cosmodes at hotmail.com, (Mailing Address) PO Box 148209, Daytona Beach, FL 32114 [Charles Vuille, 386-226-6724]. *Research Interests:* Space Physics. *Instruments, Models, Data Used:* Spectrometry.

Tang, Jing, PhD May 2003, University of Illinois, 1308 W. Main Street, Urbana, IL 61801, phone: 217-333-2931, fax: 217-333-4303, e-mail: jingtang at uiuc.edu [Dr. Gary Swenson, 217-333-4232, swenson1 at uiuc.edu]. *Research Interests:* high frequency gravity wave. *Instruments, Models, Data Used:* all sky imager, spectrometer.

Taori, Alok, PhD March 2001, Utah State University, Logan, UT 84341-4405, phone: 435-797-3919, fax: 435-797-2992, e-mail: alok at cc.usu.edu [Prof. R. Sridharan, +91-471-

563663]. *Research Interests*: Mesosphere lower thermosphere ionosphere coupling studies. Airglow monitoring. *F*: Dayglow Photometer, Multiwavelength Daytime Photometer, Day-Night Photometer, MSIS model, WINDII-UARS data on 557.7 nm and mesospheric temperatures, PR and HF radar data.

Thomas, Kristina, BS 2004, Utah State University, 0120 Old Main Hill, Logan, UT 84322-0120, phone: 435-787-8199, e-mail: kmthomas at cc.usu.edu, (Mailing Address) 930 E. 2650 North, North Logan, UT 84341 [Dr. Vincent Wickwar, 435-797-3641, wickwar at aeronomy.cass.usu.edu]. *Research Interests*: none. *Instruments, Models, Data Used*: none.

Turner, Drew, BS 2005, Embry-Riddle Aeronautical University, 600 S. Clyde Morris Boulevard, Daytona Beach, FL 32114, phone: 386-679-6945, e-mail: drewdawg_25 at hotmail.com, (Mailing Address) 105 Hickory Drive, Sewickley, PA 15143 [Dr. G. G. Sivjee, 386-226-6711, sivjee at db.erau.edu]. *Research Interests*: Space Physics and upper atmospheric Physics. *Instruments, Models, Data Used*: CCD spectrometer, Michelson interferometer, Fabry-Perot interferometer.

Tzanos, Panayiotis, MS August 2002, University of Illinois, phone: 217-333-4155, e-mail: tzanos at uiuc.edu [Prof. Farzad Kamalabadi, 217-333-4406, farzadk at uiuc.edu]. *Research Interests*: Remote sensing and imaging Multi-dimensional signal and image processing Signal reconstruction and tomography Ionospheric and space physics. *Instruments, Models, Data Used*: Parameterized Ionospheric Model (PIM) Total Electron Content data from GPS-LEO radio links.

Urbina, Julio, PhD May 2002, University of Illinois, 1308 W. Main Street, 309 CSL, Urbana, IL 61801, phone: 217-333-4152, fax: 217-333-4303, e-mail: urbina at uiuc.edu [Erhan Kudeki, 217-333-4153, e-kudeki at uiuc.edu]. *Research Interests*: Radar Instrumentation/all aspects, DSP/Radar Imaging, Mid Latitude/Equatorial Ionosphere. *Instruments, Models, Data Used*: Arecibo Observatory, Jicamarca Observatory, Urbana Observatory (UIUC), Bondville Observatory (UIUC), UIUC Portable Radar.

Uzo-Okoro, Ezinne, BS 2004, Montgomery College, 51 Mannakee Street, Rockville, MD 20850, Please note that I would be attending the workshop through: The MIT Haystack Observatory, Off Route 40, Westford, MA 01886, phone: 301-370-6888, fax: 301-847-8841, e-mail: obdoc007 at aol.com, (Mailing Address) 14104 Castle Boulevard, Apt. 402, Silver Spring, MD 20904 [Bill Rideout, 781-981-5624, brideout at haystack.mit.edu, John Holt, 781-981-5410, jmh at haystack.mit.edu]. *Research Interests*: Image, engineering, or scientific database systems, and query optimization algorithms. *Instruments, Models, Data Used*: none.

Walsh, Tim, BS May 2004, MIT Haystack Observatory, 800 Lancaster Avenue, Villanova, PA 19085, phone: 978-692-4569, e-mail: timothy.walsh at villanova.edu, (Mailing Address) 132 Carlisle Road, Westford, MA 01886 [Frank Mercede, 610-519-4982, mercede at ece.villanova.edu]. *Research Interests*: none. *Instruments, Models, Data Used*: none.

- Wen, Chun-Hsien**, PhD June 2005, Pennsylvania State University, University Park, PA 16802, phone: 814-865-7226, e-mail: cxw381 at psu.edu, (Mailing Address) 6 EE West Building, University Park, PA 16802 [John F. Doherty, 814-863-8102, jfdoherty at psu.edu, John D. Mathews, 814-865-2354, jdm9 at psu.edu]. *Research Interests*: Signal Processing. *Instruments, Models, Data Used*: Meteor data from Arecibo Observatory.
- Wilford, Chris**, PhD September 2002, University of Sheffield, Department of Applied Maths, Sheffield, S3 7RH, phone: 44-0-114-222-3825, fax: 44-0-114-222-3739, e-mail: c.wilford at sheffield.ac.uk [Roy Moffett, 44-0-114-2223780, r.moffett at sheffield.ac.uk, Graham Bailey, 44-0-114-2223744, g.bailey at sheffield.ac.uk, Julia Rees, 44-0-114 2223782, j.rees at sheffield.ac.uk]. *Research Interests*: Mathematical modelling of the thermosphere-ionosphere-plasmasphere. *Instruments, Models, Data Used*: Models - Coupled Thermosphere-Ionosphere-Plasmasphere model (CTIP), Sheffield University Plasmasphere-Ionsphere Model (SUPIM), Data - DMSP satellites, Arecibo ISR, IMAGE satellite, IMAGE magnetometer array.
- Wynn, Troy**, BS April 2004, Utah State University, Logan, UT 84322, phone: 435-753-4834, e-mail: troywynn at hotmail.com, (Mailing Address) 620 E 1000 N #2, Logan, UT 84321 [Vincent B. Wickwar, 425-797-3641, wickwar at aeronomy.cass.usu.edu]. *Research Interests*: Atmospheric Physics, Lidar Research. *Instruments, Models, Data Used*: none.
- Xu, Lifang**, PhD 2005, Colorado State University, Physics Department, Fort Collins, CO, phone: 970-491-4653, e-mail: lfxu at lamar.colostate.edu [ChiaoYao (Joe) She, joeshe at lamar.colostate.edu, David Krueger, krueger at lamar.colostate.edu]. *Research Interests*: Sodium Lidar. *Instruments, Models, Data Used*: none.
- Yuan, Tao**, PhD 2004, Colorado State University, Physics Department, Fort Collins, CO, phone: 970-491-8750, e-mail: titus at lamar.colostate.edu, (Mailing Address) 1500 West Plum Street #15J, Fort Collins, CO 80521 [Joe She, 970-491-6261, joeshe at lamar.colostate.edu]. *Research Interests*: none. *Instruments, Models, Data Used*: Lidar system.
- Zhou, Qina**, PhD August 2003, Pennsylvania State University, University Park, PA 16802, phone: 814-865-0188, e-mail: qxz107 at psu.edu [John Mathews, 814-865-2354, jdmathews at psu.edu]. *Research Interests*: Perkins instability; Numerical simulation. *Instruments, Models, Data Used*: Arecibo Data.