Agenda

2012 CEDAR Workshop

(All Workshops to be held in the Anasazi Ballroom unless otherwise noted)

Sunday 24 June
CEDAR Student Workshop (Non-students welcome!)
Theme - Waves and Tides
Co-Chairs Katelynn Greer (U CO) and Roger Varney (Cornell) (CEDAR student representatives)

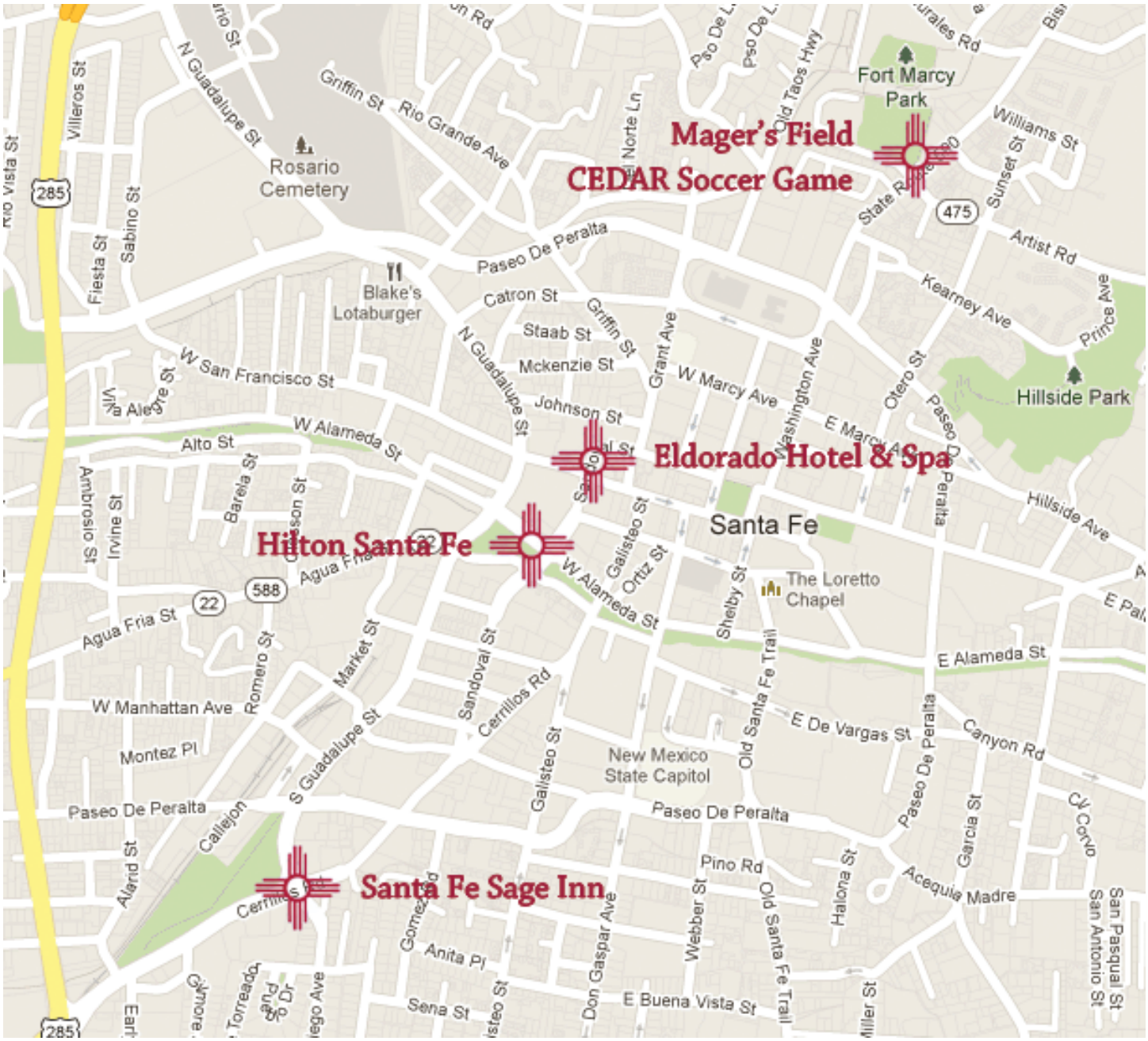
0800-0900	*Breakfast, Registration, Sign Travel Vouchers in concourses*	
0900-0910	Student welcome from NSF	Anja Stromme (NSF)
0910-0930	Student welcome from CSSC, "What is CEDAR?"	John Foster (CSSC chair, MIT)
0930-0940	Agenda information and organizational details	Katelynn Greer and Roger Varney (CSSC student representatives)
0940-1010	Woot I'm at a conference! What should I be doing to get the most out of the experience?	Jonathan Snively (ERAU)
1010-1030	Introduction to waves and tides	Loren Chang (NCU/TW)
1030-1045	*Break*	
1045-1115	Mini-Tutorial #1: Gravity Waves	Mehta, Teti, Gerrard (NJIT)
1115-1145	Mini-Tutorial #2: Rossby Waves	Scott Palo (U CO)
1145-1200	Mini-Tutorial #3: Making your way around the CEDAR science world	Jonathan Fentzke (JHU/APL)
1200-1315	*Student Lunch in Pavilion*	
1315-1345	Mini-Tutorial #4: Tides	Jeffrey Forbes (U CO)
1345-1415	Mini-Tutorial #5: Magnetized Rossby waves and mean flow generation in the lower thermosphere	Miguel Larson (Clemson)
1415-1445	Mini-Tutorial #6: Electromagnetic Waves in the Ionosphere	Ethan Miller (JHU/APL)
1445-1500	*Break*	
1500-1545	PhD Panel (Career Development)	Various (Heinselman/SRI, etc)
1545	*Adjourn*	
1600-1900	*Free time for student recreation (Annual CEDAR Soccer Game, Ultimate Frisbee; etc)*	*Park at Fort Marcy Complex/Magers Field (490 Washington Ave.)*
	and/or	
1800-2000	*CSSC Dinner Meeting*	*Osteria D'Assisi Restaurant*
	and/or	
1930-2100	*Reception Buffet for all participants in Pavilion*	

Monday 25 June

0730-0815	Breakfast/registration	Anasazi concourse
0815-0825	Welcome from NSF/CSSC	Behnke (NSF)/Foster(CSSC)
0825-0835	Introduction of students by institution	R Varney (Cornell)
0835-0920	CEDAR Prize Lecture #23: Stratospheric warmings and their effects in the ionosphere	Larisa Goncharenko (MIT)
0920-0930	Report of student workshop	K Greer (U CO)
0930-1000	*Break*	
1000-1020	Update from NSF	R Behnke (NSF)
1020-1040	Science Highlight #1: Large-scale View of Mid-latitude Plasma Convection	Simon Shepherd (Dartmouth)
1040-1100	Science Highlight #2: Nonlinear Dynamics of Deep Gravity Waves in the Thermosphere	Dave Fritts (GATS)

1100-1120	Science Highlight #3: Current and Future Opportunities for Space-Based Aeronomical Research	Tom Immel (UCB)
1120-1135	Programmatic #1: International collaboration with the Chinese Meridian Circle Project	Guotao Yang (NSSC of China)
1135-1150	Programmatic #2: Working with the new CEDAR Madrigal Database	Bill Rideout (MIT)
1150-1200	Programmatic #3: 50 years of scientific contributions, career developments, international collaboration and more	Jorge (Koki) Chau (ROJ Peru)
1200-1330	*Lunch on own*	
1330-1530	Part 1: Geospace system response at mid to high latitudes during recent geomagnetic storms - Anasazi South	S Shepherd/Erickson
	Lightning Effects in the Middle and Upper Atmosphere - Sunset	N Liu/Stanley/Taylor
	Hands-On CCMC Models and Tools for the Ionosphere - Zia	Emery/Gross/Kuznetsova/Shim /Berrios
	Part 1:Calibration and analysis techniques for optical observations - Anasazi North	Nossal/Baumgardner/Hampton
1530-1600	*Networking break (coffee only if posters follow)*	
1600-1800	Middle latitude Ionosphere-Atmosphere-Magnetosphere Coupling - Anasazi South	Maruyama/Mannucci
	Neutral Hydrogen in the Earth's Thermosphere, Exosphere, and Plasmasphere - Sunset	Crowley/Nossal/Mierkiewicz/ Azeem/Pilinski
	CEDAR Electrodynamics Thermosphere Ionosphere (ETI) Modeling Challenge - Zia	Shim/Emery/Kuznetsova/Ridley /Berrios/Sojka
	In situ measurements (60-120km) of the mesosphere-lower thermosphere (MLT) by commercial suborbital spacecraft - Anasazi North	Dyrud/Rymer/Smith
Tuesday 26 June		
0730-0815	*Breakfast*	*Anasazi concourse*
0815-0915	Tutorial #1: Comparative Aeronomy	Andy Nagy (U MI)
0915-0930	CEDAR Postdoc Report #1: Origin and Development of Medium-Scale Traveling Ionospheric Disturbances	Ethan Miller (JHU/APL)
0930-1000	*Break*	
1000-1200	Gravity Wave Propagation, Dissipation, and Effects in the MLT, Thermosphere, and Ionosphere from Tropospheric, MLT, and Thermospheric Sources - Anasazi North and South	Vadas
	Can we build an InFO strawman plan for the future development and deployment of existing and new Incoherent Scatter Radars? - Sunset	van Eyken
	FPI Measurements of Neutral Winds and Temperatures in the Upper Atmosphere - Zia	Azeem/Crowley/Noto
	Part 2: Geospace system response at mid to high latitudes during recent geomagnetic storms - DeVargas	S Shepherd/Erickson
1200-1330	*Lunch on own*	
1330-1530	MLT and thermosphere response to large-scale wave activity - Anasazi South	Oberheide/Lieberman
	Planetary Aeronomy & Comparative Upper Atmospheres - Sunset	Mierkiewicz
	PINOT - PFISR Ion Neutral Observations in the Thermosphere - Zia	Bristow
	Part 1: Low latitude thermosphere-ionosphere coupling and the development of irregularities - Anasazi North	Chapagain/Makela/Meriwether
	Technique and Applications of Radio Occultation - DeVargas	Crowley/Straus/Bishop/Mannucci
1530-1600	*Networking break (coffee only)*	
1600-1900	Poster session #1 for Ionosphere - Thermosphere (IT)	Pavilion
Wednesday 27 June		
0730-0815	*Breakfast*	*Anasazi concourse*
	or	
0700-0815	*Breakfast Discussion of Fulfilling the Potential of Women in Aeronomy*	*Sunset*
0815-0915	Tutorial #2: Creating a future for aeronomy	Larry Paxton (JHU/APL)
0915-0930	CEDAR Postdoc Report #2: Mesospheric bore evolution characteristics	Brian Laughman (NWRA)
0930-1000	*Break*	
1000-1200	New studies of gravity waves, instabilities and other unusual phenomena observed in the MLT region - Anasazi North and South	G Swenson/Taylor/Vadas
	Equatorial-PRIMO (Problems Related to Ionospheric Models and Observations) - Sunset	Fang/Anderson
	World Day planning - Zia	McCready/McCrea

	Part 2: Calibration and analysis techniques for optical observations - DeVargas	Nossal/Baumgardner/Hampton
1200-1330	*Lunch on own*	
1330-1530	Wave Dynamics in the Polar Regions - Anasazi South	K Nielsen/Taylor/Dyrland
	The equatorial ionospheric response to coupling from the atmosphere and the magnetosphere and its longitudinal dependence - Sunset	Coster/Yizengaw/Dao /de la Beaujardiere
	CESM/WACCM-X: A Tutorial - Zia	H Liu/Marsh
	Swarm Electric Field Instrument Validation Using Incoherent Scatter Radars - Anasazi North	Knudsen/Erickson
1530-1600	*Networking break (coffee only)*	
1600-1900	Poster session #2 for Mesosphere - Lower Thermosphere (MLT)	Pavilion
Thursday 28 June		
0700-0815	*Breakfast*	*Anasazi concourse*
	or	
0700-0815	*Student Breakfast with NSF*	*Sunset*
0815-0915	CEDAR Distinguished Lecture #2: An Era of Discovery in Radio and Space Physics	Don Farley (Cornell)
0915-0925	Announcement of poster prize winners	Mark Conde (CSSC)
0925-0955	*Break*	
0955-1015	Science Highlight #4: Concentric gravity waves generated by deep convection on the Great Plains	Jia Yue (NCAR)
1015-1035	Science Highlight #5: Imaging the Ionosphere Using Spaceborne Synthetic Aperture Radar	Xiaoqing Pi (JPL)
1035-1055	Science Highlight #6: Mesoscale Ionospheric Sensing Using Modern Radio Interferometers	Ken Dymond (NRL)
1055-1110	CEDAR Postdoc Report #3: Meteoric Smoke Studies at High Latitude using the Poker Flat ISR	Jonathan Fentzke (JHU/APL)
1110-1125	Programmatic #4: Radiation Belt Storm Probes (RBSP) mission	Geoff Reeves (LANL)
1125-1140	Programmatic #5: Exploring the Interaction of Earth's Atmosphere with Space: An Observatory for the Study of Universal Processes in Planetary Atmospheres	Chet Gardner (U IL)
1140-1150	Programmatic #6: 50 Years of Science, Technology, and Innovations at Millstone Hill	Phil Erickson (MIT)
1150-1200	Programmatic #7: Passing the CSSC Baton	David Hysell (Cornell, next CSSC chair)
1200-1330	*Lunch on own*	
	or	
1200-1330	*CEDAR CSSC Lunch*	Il Piatto Restaurant
1330-1530	LISN: to develop a strategy to forecast ESF - Anasazi South	Valladares/Chau/Brunini/dePaula
	Thermosphere and Ionosphere Climate - Sunset	Emmert/Qian/S Zhang
	Impacts of Meteoroids and Debris - Zia	Close/Fentzke
	New Discoveries and Advances by Lidar from Polar to Tropical Regions - Anasazi North	Chu/Yuan/G Swenson/Thayer /Williams
	U.S./Norway Collaborative Rocket Science - DeVargas	Larsen/Moen/Dahle
1530-1600	*Networking break*	
1600-1800	High Latitude GPS Scintillations and Forward Modeling - Anasazi South	Deshpande/Bust/Weatherwax /Coster
	Thermosphere and Ionosphere Climate - Sunset	Emmert/Qian/S Zhang
	Making loading data and accessing data easy with Madrigal and the CEDAR Madrigal archive - Zia	Rideout/Holt
	New Discoveries and Advances by Lidar from Polar to Tropical Regions - Anasazi North	Chu/Yuan/G Swenson/Thayer /Williams
Friday 20 June		
0730-0815	Breakfast	Anasazi concourse
0815-0915	Tutorial #3: Inferring the Limitations of Numerical Models	Jan Sojka (USU)
0915-0930	CEDAR Postdoc Report #4: Aeronomical and Spectroscopic Studies of Iron Oxide Emission	Deepali Saran (SRI)
0930-1000	*Break*	
1000-1200	CUBESAT Synergies - Anasazi North and South	Noto
	Arecibo Friends - Sunset	Santos/Brum/Sulzer/Kerr
	Part 2: Low latitude thermosphere-ionosphere coupling and the development of irregularities - Zia	Chapagain/Makela/Meriwether
1200	*Adjourn CEDAR*	

2012 CEDAR Workshop Map

June 24-29, 2012
Santa Fe, New Mexico