

Student, Recent Graduate and Post-Doc Biographies: CEDAR 2006

Acott, Phillip - acott@lamar.colostate.edu , (970) 491-5880

Institution/Degree: PhD, 2006, Physics, Colorado State University
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Instruments, Techniques & Models: Active Optics like Lidar, MLT Models
Research: Coupling Lower/Upper, MLT gravity waves, Lidar studies

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Institution/Degree: PhD, 2010,, Electrical Engineering, University of Illinois
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Instruments, Techniques & Models: Ionosphere Models, Stratosphere Models
Research: Equatorial Therm/Iono
Other Interests: Incoherent Scatter Radar Calibration Techniques

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Instruments, Techniques & Models: Active Optics like Lidar, Passive Optics, Imagers, Other Cameras, Tomography, Airglow Models, MLT Models
Research: MLT Studies, MLT gravity waves, MLT other waves

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Instruments, Techniques & Models: Coherent HF Radars
Research: Irregularities

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Instruments, Techniques & Models: Coherent HF Radars, Meteor Radars, Ionosphere Models, Thermosphere Models
Research: Ion(Therm)osphere Obs/Ins, Solar Terrestrial Interac, Irregularities

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Instruments, Techniques & Models: Meteor Radars, Spectrometers, Photometers, Magnetometers, Satellite Data, Planetary Models
Research: Mid Latitude Therm/Iono, Lidar studies

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Instruments, Techniques & Models: Incoherent Scatter Radars, MLT Radars, Meteor Radars, Ionosphere Models
Research: Ion(Therm)osphere Obs/Ins, Polar Aeronomy, Mid Latitude Therm/Iono, Irregularities, Non-Wind Meteor Science, Data Management and Viz

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Instruments, Techniques & Models: Incoherent Scatter Radars, Ionosondes including Vi, GPS, Balloon Plane Rocket Data, Ionosphere Models, Thermosphere Models, Airglow Models
Research: Magnetosphere, Solar Terrestrial Interac, Mid Latitude Therm/Iono, Equatorial Therm/Iono, Irregularities, Coupling Lower/Upper, MLT Studies, MLT gravity waves, MLT other waves

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Instruments, Techniques & Models: Incoherent Scatter Radars, Coherent HF Radars, Passive Optics, Imagers, Other Cameras, Riometers, Geophysical Indices, Ionosphere Models

Research: Ion(Therm)osphere Obs/Ins, Polar Aeronomy, Mid Latitude Therm/Iono, Equatorial Therm/Iono, Irregularities

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Instruments, Techniques & Models: Incoherent Scatter Radars

Research: Non-Wind Meteor Science

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Research: MLT Studies

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Instruments, Techniques & Models: Meteor Radars, Ionosondes including Vi, GPS, Active Optics like Lidar, Passive Optics, FabryPerot Interferometer, Spectrometers, Photometers, Magnetometers, Riometers, Geophysical Indices, Ionosphere Models, Airglow Models, Tidal Models

Research: Magnetosphere, Ion(Therm)osphere Obs/Ins, Long Term Variations, Solar Terrestrial Interac, Polar Aeronomy, Mid Latitude Therm/Iono, Equatorial Therm/Iono

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Research: MLT Studies, MLT gravity waves, MLT other waves

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Research: Data Management and Viz

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Research: Ion(Therm)osphere Obs/Ins, Solar Terrestrial Interac, Irregularities

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Research: MLT Instruments or Techs, Non-Wind Meteor Science

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Research: Comparative Planets, MLT Instruments or Techs, MLT Studies, MLT gravity waves, MLT other waves

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Research: Mid Latitude Therm/Iono

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Instruments, Techniques & Models: Coherent HF Radars, MLT Radars

Research: Stratosphere and Below

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Research: Ion(Therm)osphere Obs/Ins

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Research: Ion(Therm)osphere Obs/Ins, Long Term Variations, Mid Latitude Therm/Iono, Equatorial Therm/Iono, Irregularities, Coupling Lower/Upper, Sprites

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Research: Long Term Variations, Mid Latitude Therm/Iono, Equatorial Therm/Iono

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Research: Ion(Therm)osphere Obs/Ins, Mid Latitude Therm/Iono, Equatorial Therm/Iono, Irregularities

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Research: Polar Aeronomy, Equatorial Therm/Iono, Irregularities

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Research: MLT Instruments or Techs, Long Term Variations, Polar Aeronomy, Mid Latitude Therm/Iono, Coupling Lower/Upper, MLT Studies, MLT gravity waves, MLT other waves, Non-Wind Meteor Science

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Research: Lidar studies

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Research: Magnetosphere, Polar Aeronomy, Mid Latitude Therm/Iono, Equatorial Therm/Iono

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Research:

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Instruments, Techniques & Models: Imagers, Satellite Data
Research: Magnetosphere, Ion(Therm)osphere Obs/Ins, Polar Aeronomy
Other Interests: Variability in the electrostatic, potential distribution applied to the high latitude ionosphere.,

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Research: Ion(Therm)osphere Obs/Ins, Polar Aeronomy, Equatorial Therm/Iono, MLT Studies

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Research: Magnetosphere, MLT Instruments or Techs, Polar Aeronomy, Mid Latitude Therm/Iono, Equatorial Therm/Iono, Irregularities, Non-Wind Meteor Science

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Research: MLT Instruments or Techs, Ion(Therm)osphere Obs/Ins, Mid Latitude Therm/Iono, Equatorial Therm/Iono, Coupling Lower/Upper, MLT Studies, MLT gravity waves, MLT other waves, Lidar studies, Stratosphere and Below

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Instruments, Techniques & Models: GPS, Satellite Data, Tomography, Ionosphere Models, Thermosphere Models
Research: Magnetosphere, Ion(Therm)osphere Obs/Ins, Solar Terrestrial Interac, Equatorial Therm/Iono

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Instruments, Techniques & Models: Spectrometers, Imagers, Satellite Data, Geophysical Indices, Planetary Models, M-I Coupling Models, Ionosphere Models, Thermosphere Models

Research: Magnetosphere, Comparative Planets, Ion(Therm)osphere Obs/Ins, Solar Terrestrial Interac, Polar Aeronomy, Mid Latitude Therm/Iono

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Instruments, Techniques & Models:

Research:

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Instruments, Techniques & Models: Incoherent Scatter Radars, Ionosondes including Vi, GPS, FabryPerot Interferometer, Magnetometers, Satellite Data, Geophysical Indices, Tomography, Assimilation Models, Plasmasphere Models, M-I Coupling Models, Ionosphere Models, Thermosphere Models

Research: Ion(Therm)osphere Obs/Ins, Long Term Variations, Solar Terrestrial Interac, Polar Aeronomy, Mid Latitude Therm/Iono, Equatorial Therm/Iono, Coupling Lower/Upper

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CEDAR Advisor: Diego Janches, diego@cora.nwra.com

Instruments, Techniques & Models:

Research: Lidar studies, Non-Wind Meteor Science

Fines, Brandon - bsfzp9@mizzou.edu , (816) 916-8170

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CEDAR Advisor: William Rideout, brideout@haystack.mit.edu

Instruments, Techniques & Models: Incoherent Scatter Radars, Geophysical Indices

Research: Data Management and Viz

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Instruments, Techniques & Models: Incoherent Scatter Radars, Coherent HF Radars, Meteor Radars, Active Optics like Lidar, Imagers, Ionosphere Models, Thermosphere Models

Research: Non-Wind Meteor Science

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Instruments, Techniques & Models: Magnetosphere Models, Plasmasphere Models, M-I Coupling Models, Ionosphere Models, Thermosphere Models

Research: Magnetosphere, Ion(Therm)osphere Obs/Ins, Solar Terrestrial Interac, Polar Aeronomy, Mid Latitude Therm/Iono, Equatorial Therm/Iono, Irregularities

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Instruments, Techniques & Models: Active Optics like Lidar

Research: Lidar studies

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Instruments, Techniques & Models: Satellite Data, Thermosphere Models
Research: Equatorial Therm/Iono

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Instruments, Techniques & Models: MLT Radars, GPS, Active Optics like Lidar, Imagers, Balloon Plane Rocket Data, Satellite Data, Thermosphere Models, Tidal Models, MLT Models, Stratosphere Models
Research: MLT Instruments or Techs, MLT gravity waves, Stratosphere and Below

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Instruments, Techniques & Models: FabryPerot Interferometer, Airglow Models
Research: Ion(Therm)osphere Obs/Ins, Polar Aeronomy, Mid Latitude Therm/Iono, Equatorial Therm/Iono

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Instruments, Techniques & Models: MLT Radars, Meteor Radars, Satellite Data, Tidal Models, MLT Models
Research: MLT Instruments or Techs, Long Term Variations, Polar Aeronomy, Coupling Lower/Upper, MLT Studies, MLT gravity waves, MLT other waves

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Research: Ion(Therm)osphere Obs/Ins, Data Management and Viz

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Research: Solar Terrestrial Interac, Mid Latitude Therm/Iono

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Instruments, Techniques & Models: GPS, Imagers, Satellite Data
Research: Magnetosphere, Ion(Therm)osphere Obs/Ins, Polar Aeronomy
Other Interests: Ion Drift Variability and Joule heating

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Instruments, Techniques & Models: Imagers, Satellite Data, Geophysical Indices, Planetary Models, Magnetosphere Models, Plasmasphere Models, M-I Coupling Models
Research: Magnetosphere, Comparative Planets, Ion(Therm)osphere Obs/Ins, Solar Terrestrial Interac, Mid Latitude Therm/Iono

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Instruments, Techniques & Models: Spectrometers, Imagers
Research: Sprites

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Research: MLT Instruments or Techs

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Research: Mid Latitude Therm/Iono, Equatorial Therm/Iono, Irregularities, Coupling Lower/Upper

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Instruments, Techniques & Models:
Research:

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Instruments, Techniques & Models: Satellite Data
Research: Comparative Planets, Ion(Therm)osphere Obs/Ins, Mid Latitude Therm/Iono, Data Management and Viz

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Instruments, Techniques & Models: GPS
Research: Mid Latitude Therm/Iono

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Instruments, Techniques & Models: FabryPerot Interferometer
Research: MLT Instruments or Techs, MLT Studies, MLT gravity waves, MLT other waves

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Instruments, Techniques & Models: Incoherent Scatter Radars, Coherent HF Radars
Research:

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Plane Rocket Data, Satellite Data, Ionosphere Models
Research: Ion(Therm)osphere Obs/Ins, Long Term Variations, Mid Latitude Therm/Iono, Equatorial Therm/Iono, Coupling
Lower/Upper, Sprites, Data Management and Viz

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Instruments, Techniques & Models:
Research: Sprites

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Instruments, Techniques & Models: Balloon Plane Rocket Data
Research: Stratosphere and Below

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Research: MLT Instruments or Techs, Coupling Lower/Upper, Sprites

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Research: Ion(Therm)osphere Obs/Ins, Mid Latitude Therm/Iono, Coupling Lower/Upper

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Research: MLT Instruments or Techs, Coupling Lower/Upper, MLT Studies, MLT gravity waves, MLT other waves, Lidar studies

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Research: MLT Instruments or Techs, Ion(Therm)osphere Obs/Ins, Long Term Variations, Polar Aeronomy, Coupling Lower/Upper, MLT Studies, Lidar studies

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Instruments, Techniques & Models: Passive Optics, Spectrometers, Photometers, Imagers, Other Cameras, Satellite Data, M-I Coupling Models, Ionosphere Models
Research: MLT Instruments or Techs, Coupling Lower/Upper, MLT Studies, Sprites

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Instruments, Techniques & Models: Ionosondes including Vi, GPS, Passive Optics, FabryPerot Interferometer, Imagers, Satellite Data, Geophysical Indices, Ionosphere Models
Research: Comparative Planets, Ion(Therm)osphere Obs/Ins, Solar Terrestrial Interac, Mid Latitude Therm/Iono, Equatorial Therm/Iono, Irregularities

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Instruments, Techniques & Models: Incoherent Scatter Radars, Michelson Interferometers, Magnetometers, Magnetosphere Models, Plasmasphere Models, Ionosphere Models
Research: Magnetosphere, Ion(Therm)osphere Obs/Ins, Solar Terrestrial Interac, Mid Latitude Therm/Iono, Equatorial Therm/Iono, Stratosphere and Below

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Instruments, Techniques & Models: Incoherent Scatter Radars, Ionosphere Models
Research: Equatorial Therm/Iono

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Instruments, Techniques & Models: GPS, FabryPerot Interferometer, Imagers, Satellite Data, Geophysical Indices, Ionosphere Models
Research: Equatorial Therm/Iono, Irregularities

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Instruments, Techniques & Models:
Research: Magnetosphere

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Instruments, Techniques & Models: Incoherent Scatter Radars, Planetary Models, Plasmasphere Models, M-I Coupling Models, Ionosphere Models, Thermosphere Models, Airglow Models
Research: Comparative Planets, Ion(Therm)osphere Obs/Ins, Mid Latitude Therm/Iono, Equatorial Therm/Iono

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Instruments, Techniques & Models: Ionosondes including Vi, GPS, Satellite Data, Geophysical Indices, Tomography, M-I Coupling Models, Ionosphere Models, Thermosphere Models
Research: Ion(Therm)osphere Obs/Ins, Solar Terrestrial Interac, Equatorial Therm/Iono, Irregularities

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Instruments, Techniques & Models: Geophysical Indices
Research: Magnetosphere, Solar Terrestrial Interac
Other Interests: Artificial Intelligence Techniques

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Instruments, Techniques & Models: Satellite Data, Assimilation Models, Airglow Models
Research: Ion(Therm)osphere Obs/Ins, Solar Terrestrial Interac, Equatorial Therm/Iono

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Instruments, Techniques & Models: Passive Optics, Michelson Interferometers, Spectrometers, Satellite Data
Research: MLT Instruments or Techs, Long Term Variations, Polar Aeronomy, MLT Studies
Other Interests: varied

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Instruments, Techniques & Models: Satellite Data, Geophysical Indices, Ionosphere Models
Research: Mid Latitude Therm/Iono, Irregularities
Other Interests: Topsides sounders and Digisondes

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Research: Magnetosphere, Solar Terrestrial Interac, Mid Latitude Therm/Iono, Equatorial Therm/Iono, Irregularities, Coupling Lower/Upper

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Instruments, Techniques & Models: Incoherent Scatter Radars, Coherent HF Radars, Ionosondes including Vi, GPS, Passive Optics, Imagers, Magnetometers, Satellite Data, Geophysical Indices, Ionosphere Models, Thermosphere Models, Airglow Models
Research: Ion(Therm)osphere Obs/Ins, Mid Latitude Therm/Iono, Equatorial Therm/Iono, Irregularities

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Instruments, Techniques & Models: Incoherent Scatter Radars, Meteor Radars, Active Optics like Lidar, Passive Optics, Imagers, Other Cameras
Research: Comparative Planets, MLT Instruments or Techs, Long Term Variations, Polar Aeronomy, MLT Studies, MLT gravity waves, MLT other waves, Lidar studies
Other Interests: Physics Education

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Research: Ion(Therm)osphere Obs/Ins, MLT gravity waves

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Instruments, Techniques & Models: Balloon Plane Rocket Data
Research: MLT gravity waves, MLT other waves

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Instruments, Techniques & Models: Ionosondes including Vi, GPS, Imagers, Satellite Data, Geophysical Indices, Tomography, Magnetosphere Models, Plasmasphere Models, M-I Coupling Models, Ionosphere Models
Research: Magnetosphere, Ion(Therm)osphere Obs/Ins, Mid Latitude Therm/Iono, Equatorial Therm/Iono, Irregularities, Coupling Lower/Upper

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Research: Ion(Therm)osphere Obs/Ins, Equatorial Therm/Iono, Data Management and Viz

Other Interests: space instrumentation

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Research: Equatorial Therm/Iono

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Instruments, Techniques & Models: Incoherent Scatter Radars, Coherent HF Radars, MLT Radars, Meteor Radars, Ionosondes including Vi

Research: MLT Instruments or Techs, Polar Aeronomy, Irregularities, MLT Studies, MLT gravity waves

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Instruments, Techniques & Models: Ionosphere Models, Thermosphere Models

Research: Mid Latitude Therm/Iono, Equatorial Therm/Iono

Other Interests: Coupling UA/Magnetosphere,

Climbing and skiing!

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Instruments, Techniques & Models: Incoherent Scatter Radars, GPS, Ionosphere Models

Research: Long Term Variations

Other Interests: Atmospheric Science and Climate Variability.

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Instruments, Techniques & Models: Coherent HF Radars, Ionosondes including Vi, GPS, Imagers, Magnetometers, Geophysical Indices, Assimilation Models, Planetary Models, M-I Coupling Models, Ionosphere Models

Research: Ion(Therm)osphere Obs/Ins, Long Term Variations, Solar Terrestrial Interac, Mid Latitude Therm/Iono, Equatorial Therm/Iono, MLT gravity waves, Lidar studies, Data Management and Viz

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Instruments, Techniques & Models: Incoherent Scatter Radars

Research: Ion(Therm)osphere Obs/Ins, Long Term Variations, Coupling Lower/Upper, MLT Studies

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Instruments, Techniques & Models: Incoherent Scatter Radars, MLT Radars, Ionosondes including Vi, Ionosphere Models

Research: MLT Instruments or Techs, Equatorial Therm/Iono, MLT Studies, Data Management and Viz

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Instruments, Techniques & Models: Incoherent Scatter Radars
Research: MLT Instruments or Techs

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Instruments, Techniques & Models: GPS, Balloon Plane Rocket Data, Airglow Models
Research: Coupling Lower/Upper, Sprites, Stratosphere and Below
Other Interests: Lightning study, relationships with TLEs initiation.

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Instruments, Techniques & Models: Meteor Radars
Research: Data Management and Viz
Other Interests: Spectral Analysis

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Instruments, Techniques & Models: Ionosodes, including ion drifts, balloon, plane or rocket data, ionosphere models, tidal models
Research: Ionosphere or thermosphere observations or instruments, mid latitude thermosphere or ionosphere, irregularities, non-wind meteor science
Other interests: Intermediate layers

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Instruments, Techniques & Models: Incoherent Scatter Radars, Coherent HF Radars, GPS
Research: Ion(Therm)osphere Obs/Ins, Equatorial Therm/Iono, Irregularities

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Research: Non-Wind Meteor Science

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Research: Sprites, Stratosphere and Below
Other Interests: Energetic radiation from lightning.

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Instruments, Techniques & Models: Thermosphere Models
Research: Stratosphere and Below

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Instruments, Techniques & Models: Passive Optics, Imagers
Research: Ion(Therm)osphere Obs/Ins, Mid Latitude Therm/Iono

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Instruments, Techniques & Models: Planetary Models
Research: MLT Studies, MLT gravity waves, MLT other waves

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Research: Ion(Therm)osphere Obs/Ins, Mid Latitude Therm/Iono

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Instruments, Techniques & Models: Incoherent Scatter Radars, Coherent HF Radars, Magnetometers, Satellite Data, Geophysical Indices, Ionosphere Models, Thermosphere Models, Tidal Models
Research: Ion(Therm)osphere Obs/Ins, Solar Terrestrial Interac, Equatorial Therm/Iono, Irregularities, Coupling Lower/Upper

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Instruments, Techniques & Models: Imagers, Other Cameras, Airglow Models
Research: MLT Studies, MLT gravity waves, MLT other waves
Other Interests: Atmospheric Dynamics

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Instruments, Techniques & Models: Meteor Radars, Imagers, Airglow Models, MLT Models
Research: Coupling Lower/Upper, MLT gravity waves

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Instruments, Techniques & Models: Incoherent Scatter Radars, Coherent HF Radars, MLT Radars, Meteor Radars, Ionosondes including Vi, FabryPerot Interferometer, Spectrometers, Satellite Data, Geophysical Indices, Assimilation Models, Planetary Models, Magnetosphere Models, Plasmasphere Mod
Research: Magnetosphere, Ion(Therm)osphere Obs/Ins, Solar Terrestrial Interac, Mid Latitude Therm/Iono, Equatorial Therm/Iono

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Research: MLT Instruments or Techs, MLT gravity waves

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Instruments, Techniques & Models: Incoherent Scatter Radars, MLT Models

Research: Polar Aeronomy, MLT Studies, MLT other waves

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Instruments, Techniques & Models: MLT Radars, Meteor Radars, Active Optics like Lidar, Passive Optics, FabryPerot

Interferometer, Photometers, Imagers, Satellite Data, Tomography, Planetary Models, Airglow Models, Tidal Models, MLT Models

Research: MLT Instruments or Techs, Coupling Lower/Upper, MLT Studies, MLT gravity waves, MLT other waves, Lidar studies

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Instruments, Techniques & Models: Magnetometers

Research: Equatorial Therm/Iono

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Instruments, Techniques & Models: Incoherent Scatter Radars, Coherent HF Radars, MLT Radars, Meteor Radars

Research:

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Instruments, Techniques & Models: Incoherent Scatter Radars, Ionosondes including Vi, Passive Optics, FabryPerot

Interferometer, Spectrometers, Photometers, Geophysical Indices, Magnetosphere Models, Plasmasphere Models, Ionosphere Models, Thermosphere Models, Airglow Models

Research: Magnetosphere, Comparative Planets, Ion(Therm)osphere Obs/Ins, Long Term Variations, Solar Terrestrial Interac, Mid Latitude Therm/Iono, Equatorial Therm/Iono

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Instruments, Techniques & Models: Ionosondes including Vi, Satellite Data

Research: Solar Terrestrial Interac, Equatorial Therm/Iono

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Instruments, Techniques & Models:

Research:

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Instruments, Techniques & Models: Incoherent Scatter Radars

Research: Ion(Therm)osphere Obs/Ins, Polar Aeronomy

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Instruments, Techniques & Models:
Research: Comparative Planets

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Research: MLT gravity waves

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Research: MLT Instruments or Techs, Mid Latitude Therm/Iono, MLT Studies, MLT gravity waves, Lidar studies, Data Management and Viz

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Research: Ion(Therm)osphere Obs/Ins

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Research: Polar Aeronomy, Equatorial Therm/Iono

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Instruments, Techniques & Models: Airglow Models, MLT Models
Research: Coupling Lower/Upper, MLT Studies, MLT gravity waves, MLT other waves

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Instruments, Techniques & Models: Active Optics like Lidar, Satellite Data, M-I Coupling Models, Tidal Models, MLT Models
Research: MLT Instruments or Techs, Long Term Variations, Mid Latitude Therm/Iono, MLT Studies, MLT gravity waves, MLT other waves, Lidar studies

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Research: MLT Studies, MLT gravity waves, Lidar studies, Stratosphere and Below

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Instruments, Techniques & Models: Incoherent Scatter Radars, Ionosondes including Vi, GPS, Other Cameras, Satellite Data, Magnetosphere Models, Plasmasphere Models, M-I Coupling Models, Ionosphere Models, Thermosphere Models, Airglow Models

Research: Magnetosphere, Ion(Therm)osphere Obs/Ins, Mid Latitude Therm/Iono, Equatorial Therm/Iono, Irregularities, Coupling Lower/Upper

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Instruments, Techniques & Models: Balloon Plane Rocket Data, Ionosphere Models

Research: Ion(Therm)osphere Obs/Ins

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Research: Lidar studies