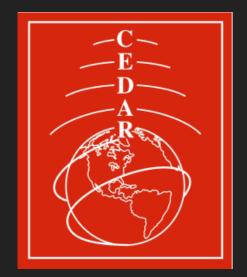
# POSTER AWARDS

### 2019 CEDAR STUDENT POSTER CONTEST





#### Tuesday MLT & IT Session 51

#### Wednesday IT Session 38

#### **POSTER JUDGES & SUPPORT**

Gang Lu **Meghan Burleigh Dustin Hickey Piyush Mehta** Seebany Datta-Barua **Chih-Ting Hsu Diana Loucks** Joe McInerney Nick Pedatella Shun-Rong Zhang **Brian Harding** Susan Nossal Jonathan Snively Living Qian Loren Chang **Astrid Maute** 

Lynn Harvey Yen-Jung (Joanne) Wu Fabio Vargas Cissi Lin Lindsay Goodwin Mack Jones Jr. **Cheng Sheng Bruce Fritz** Federico Gasperini Julio Urbina Naomi Maruyama Victoriya Forsythe Matthew Young **Titus Yuan** Hassan Akbari

### **EVALUATION COMMENTS**

- What was done well?
- What could be improved?
- Are there any relevant papers? Experts who might be interested?

# PICK UP YOUR EVALUATION SHEETS AT THE REGISTRATION DESK!

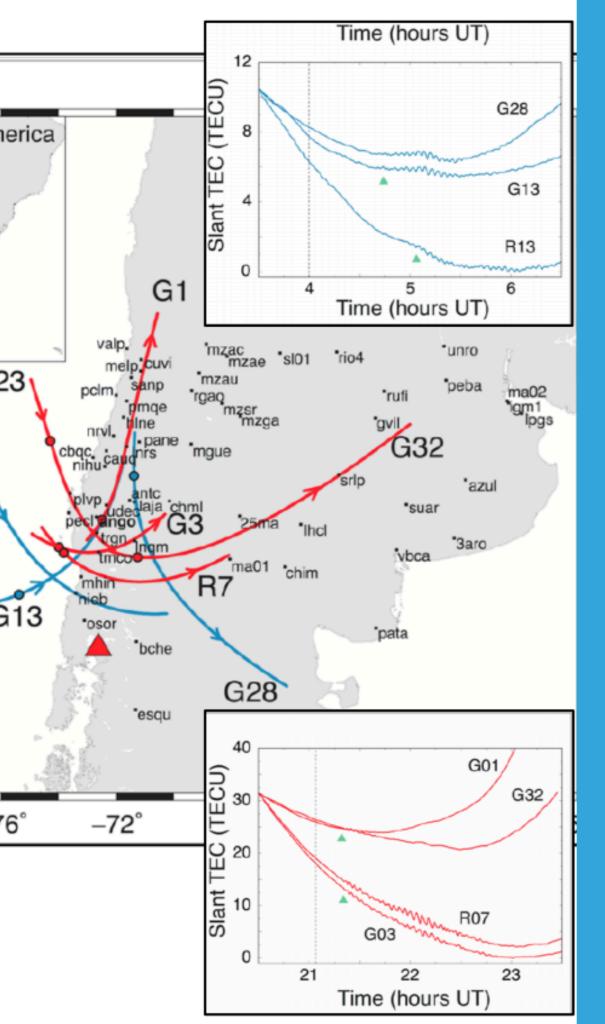
#### **EVALUATION RUBRICS**

Student Name and Institution				Poster #			
Below Average 1	2	Average 3	4	Above Average 5	Weight	Points	
1. Was the poster summarized clearly in a 10-minute uninterrupted presentation? (max 50 points)							
The poster was not presented or was not explained clearly.		The poster was well- summarized, with opportunities to improve clarity or time management.		The poster was clearly summarized within the time given, showing ability to tailor the delivery for the audience.	10		
2. Was the student able to clarify the scientific issues and objectives, demonstrating understanding? (max 50 points)							
The scientific issues and objectives were not clearly explained.		The scientific issues and objectives were explained clearly, with opportunities for improvement.		Clear and comprehensive understanding of scientific issues and objectives, and how they were addressed, were demonstrated.	10		
3. Was the student able to describe and demonstrate understanding of the methodology? (max 50 points)							
The methodology was not clearly described and/or the understanding was not demonstrated in the presentation.		The methodology was presented in a way that was generally comprehensible and demonstrated understanding.		The methodology was comprehensively and clearly presented, demonstrating significant understanding.	10		
4. Were the conclusions stated concisely and clearly? (max 50 points)							
The presented conclusions of this study are unclear.		The conclusions are stated, but not fully supported by the work presented.		The conclusions and significance of the results are clearly shown and supported.	10		

https://cedarweb.vsp.ucar.edu/wiki/index.php/Workshop:Student\_Poster\_competition

# TUESDAY MLT & IT Poster Awards

**Undergraduate Award** 

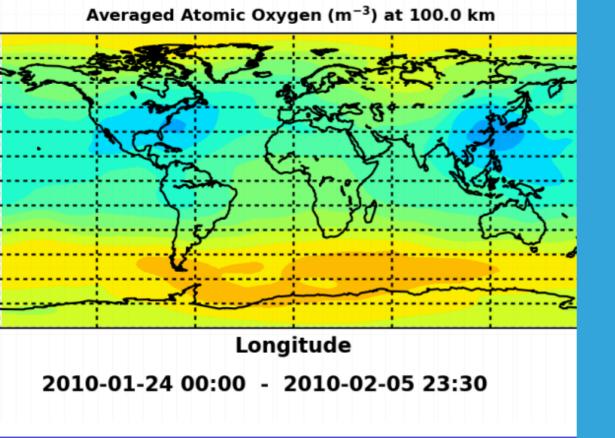




### JUSTIN TYSKA UNIVERSITY OF TEXAS AT ARLINGTON

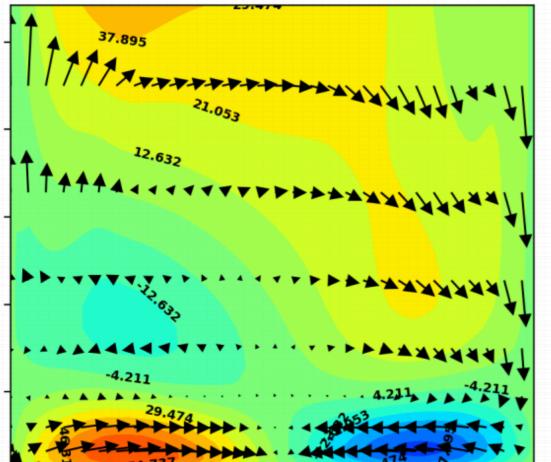
VOLCANO-GENERATED IONOSPHERIC DISTURBANCES: COMPARISON OF GITM-R SIMULATIONS WITH GNSS OBSERVATION

## **Undergraduate Award**



#### WACCM-X driven GITM

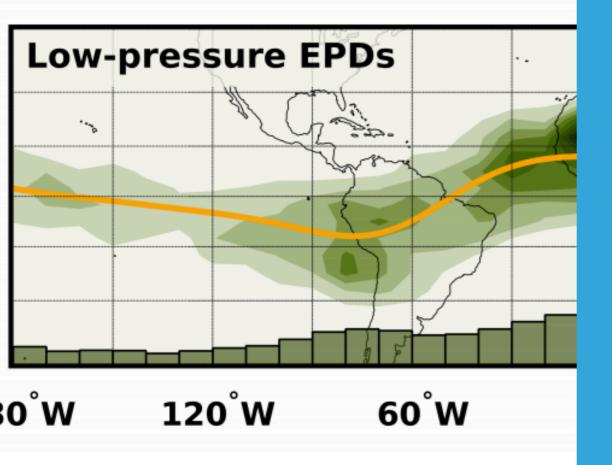
M-X V (m/s) 2010/01/24 00:00 : 2010/02/05 23





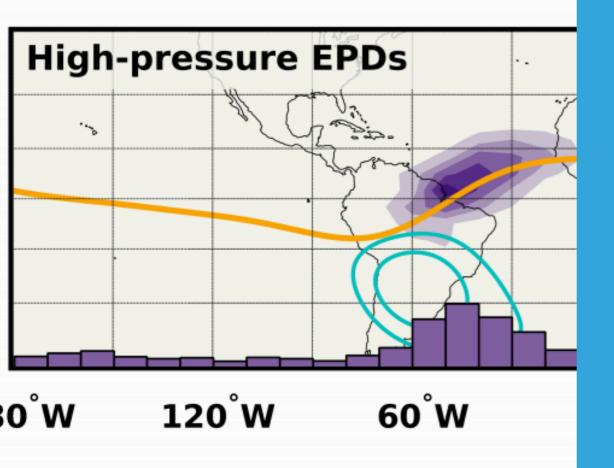
## **GARIMA MALHOTRA** UNIVERSITY OF MICHIGAN

UNDERSTANDING THE EFFECTS OF LOWER THERMOSPHERIC ATOMIC OXYGEN ON UPPER IONOSPHERE-THERMOSPHERE SYSTEM

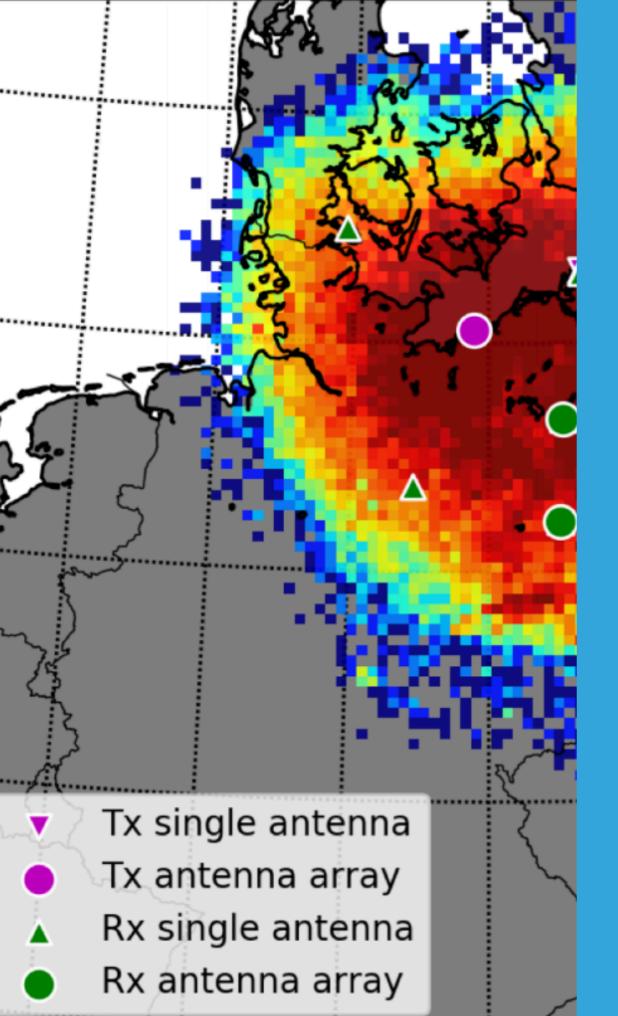




## JUAN RODRÍGUEZ-ZULUAGA GFZ POTSDAM



ASSESSMENT OF THE PLASMA AND MAGNETIC PRESSURE BALANCE ACROSS EQUATORIAL PLASMA DEPLETIONS



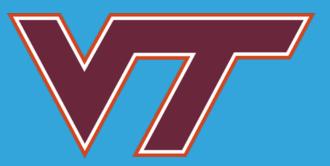


#### JUAN URCO LEIBNIZ-INSTITUTE OF ATMOSPHERIC PHYSICS

SPARSE METEOR SIGNAL RECOVERY FROM MIMO RADAR MEASUREMENTS



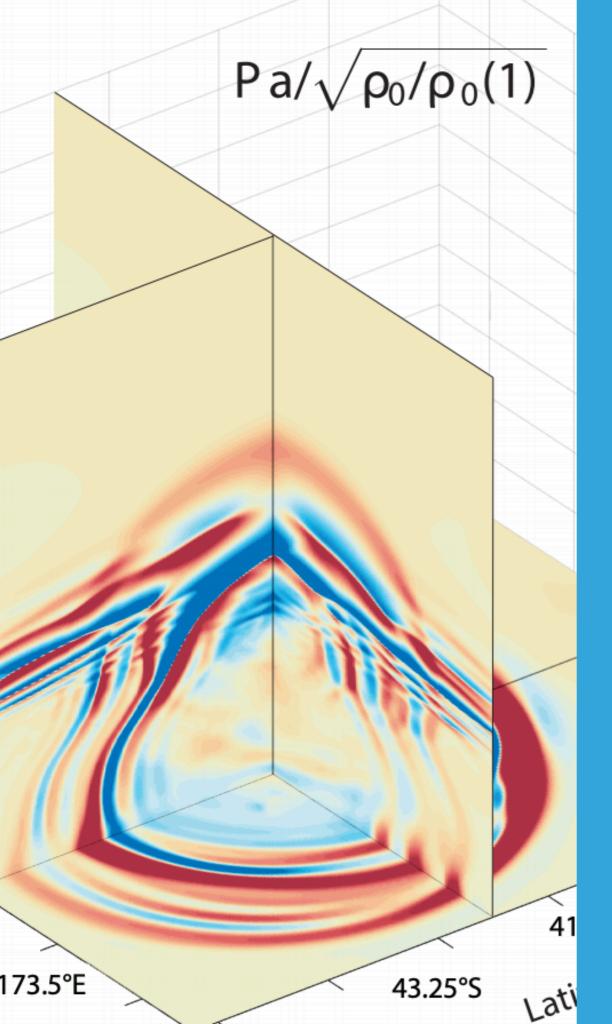
-	Bx, By, Bz, Vx, Np	0.75	0.73
	Bx, By, Bz, Vx	0.75	0.71
	By, Bz, Vx, Np	0.74	0.73
	Bx, Bz, Vx, Np	0.74	0.73
	Bx, By, Bz, Np	0.73	0.67
	Bx, By, Vx, Np	0.69	0.58
	By, Bz, Vx	0.75	0.7
	Bz, Vx	0.75	0.7
	Bz	0.71	0.68
	Vx	0.69	0.51
	Ву	0.64	0.49
	Bx	0.65	0.43
	Np	0.58	0.35
		Precision	Recall



# MAIMAITIREBIKE MAIMAITI VIRGINIA TECH

A DEEP LEARNING BASED APPROACH TO PREDICT THE ONSET OF MAGNETIC SUBSTORMS

## **Second Place**



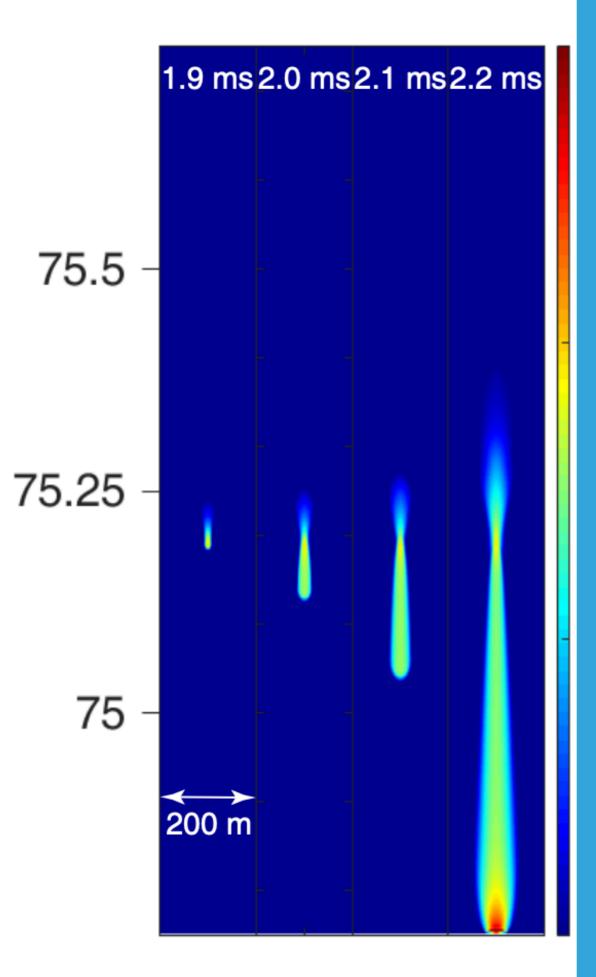


## PAVEL INCHIN Embry-riddle aeronautical university

ATMOSPHERE AND IONOSPHERE RESPONSES TO INFRASONIC ACOUSTIC WAVES DRIVEN BY THE 2016 KAIKOURA EARTHQUAKE

**Second Place** 







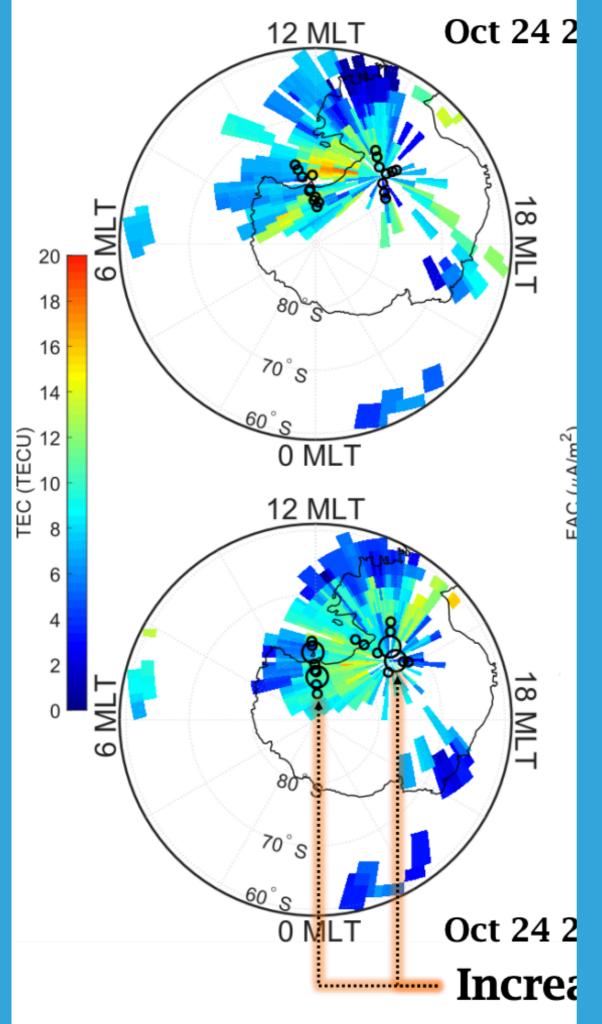
## REZA JANALIZADEH CHOOBBASTI PENNSYLVANIA STATE UNIVERSITY

PHOTOIONIZATION AND ELECTRON IMPACT IONIZATION OF METALLIC SPECIES AT SPRITE ALTITUDES AS A MECHANISM OF INITIATION OF SPRITE STREAMERS

**First Place** 

# WEDNESDAY IT POSTER AWARDS

**Undergraduate Award** 

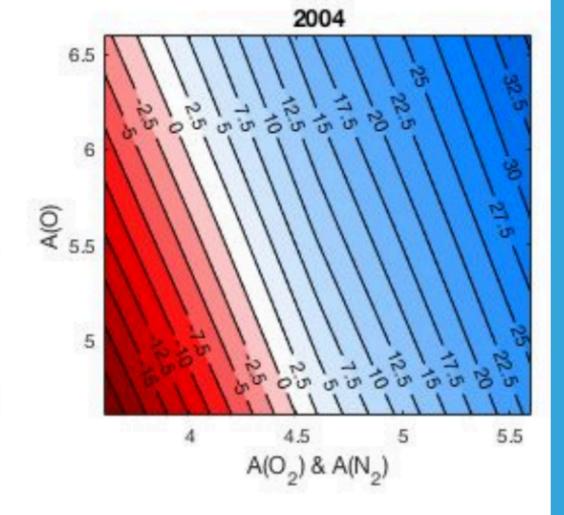


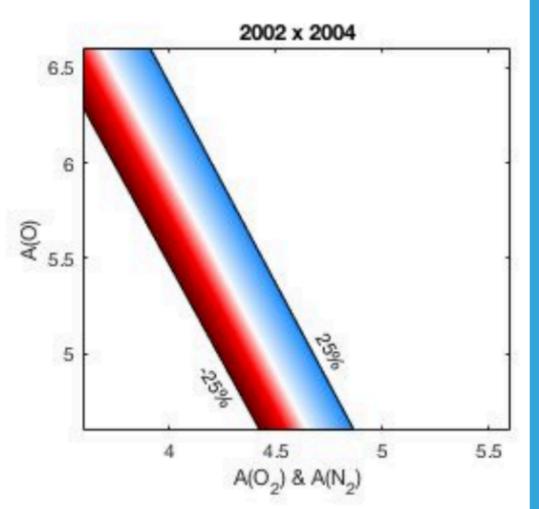


# THOMAS COPPEANS UNIVERSITY OF MICHIGAN

GNSS TEC AND SCINTILLATION VARIATIONS FOLLOWING SOLAR WIND DYNAMIC PRESSURE ENHANCEMENT

**Undergraduate** Award







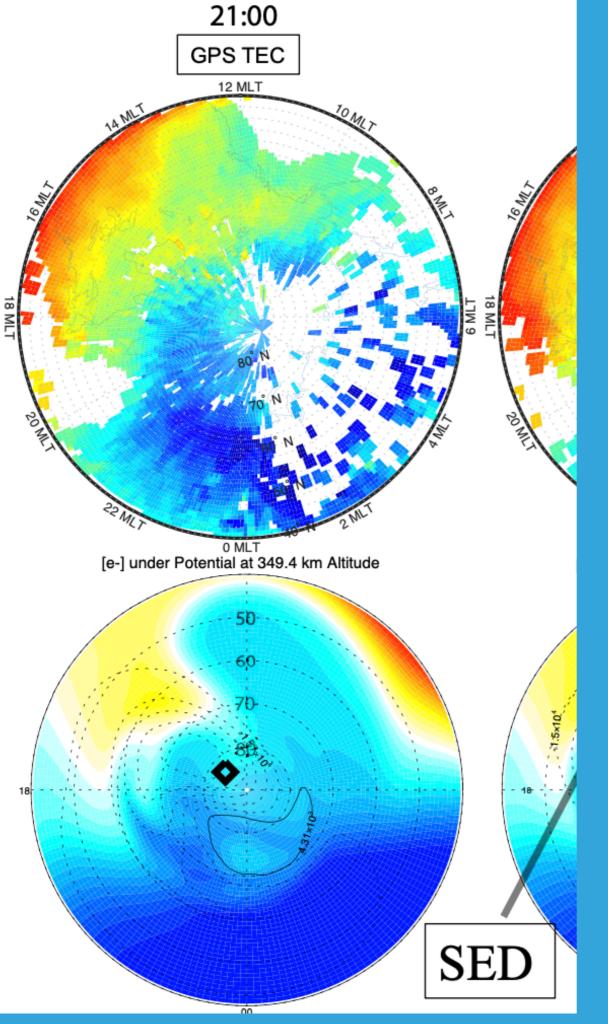
# BRANDON PONDOR UNIVERSITY OF MICHIGAN

MODELING THE EARTH'S THERMAL CONDUCTION COEFFICIENTS

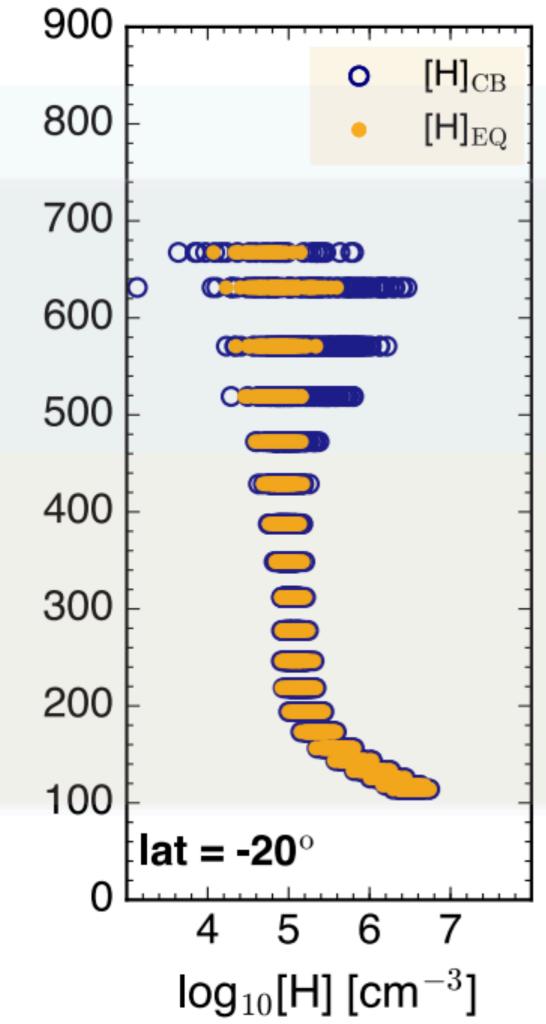


## ZIHAN WANG UNIVERSITY OF MICHIGAN

SEGMENTATION OF STORM ENHANCED DENSITY (SED) BY BOUNDARY FLOWS ASSOCIATED WITH WESTWARD DRIFTING PARTIAL RING CURRENT



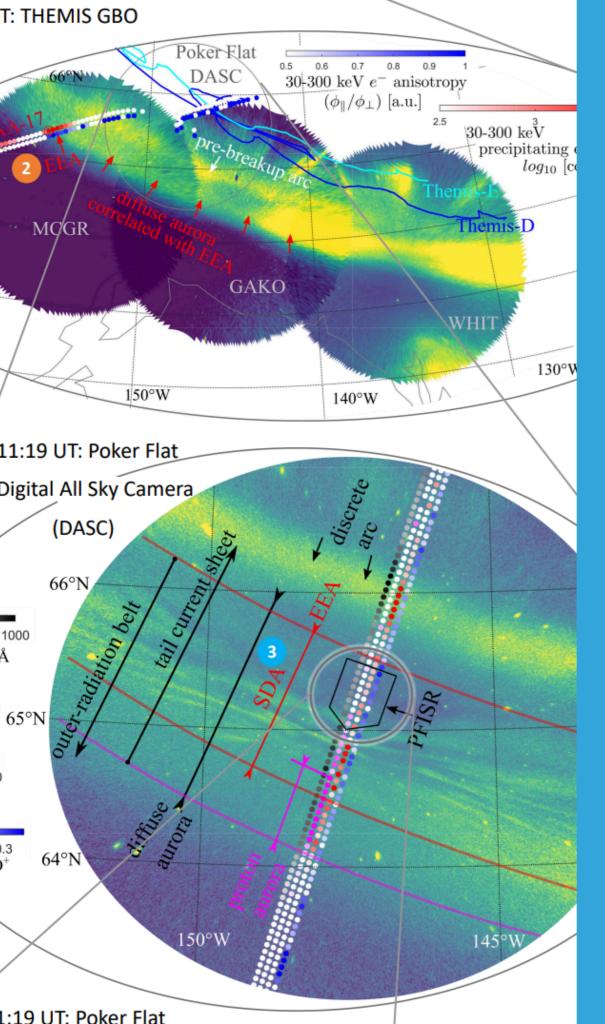






## PRATIK JOSHI UNIVERSITY OF ILLINOIS AT URBANA CHAMPAIGN

PARAMETRIC ESTIMATION OF NEUTRAL HYDROGEN DENSITY USING PROTON CONTINUITY BALANCE WITH TIMED/ GUVI AND SAMI3 Second Place



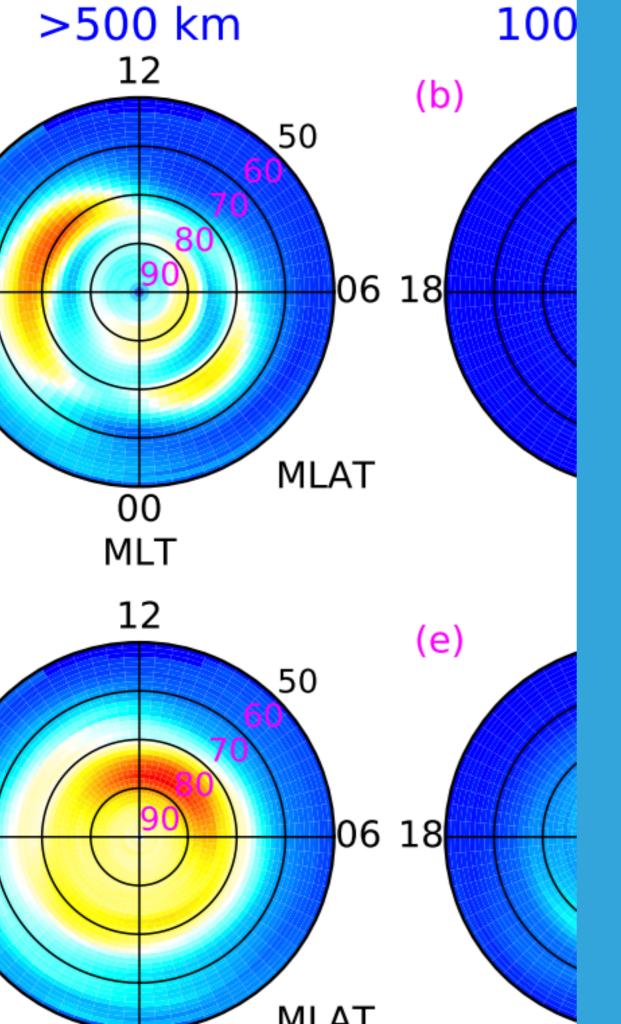


## NITHIN SIVADAS BOSTON UNIVERSITY

#### OPTICAL SIGNATURES OF THE OUTER RADIATION BELT BOUNDARY

**Second Place** 







## QINGYU ZHU UNIVERSITY OF TEXAS AT ARLINGTON

IMPACTS OF MULTI-SCALE FIELD-ALIGNED CURRENTS (FACS) ON THE IONOSPHERE-THERMOSPHERE SYSTEM: GITM SIMULATION

**First Place** 

### **STUDENT POSTER AWARDS**

#### Tuesday (MLT & IT)

Reza Janalizadeh Choobbasti

Pavel Inchin Maimaitirebike Maimaiti

Garima Malhotra Juan Rodríguez-Zuluaga Juan Urco Justin Tyska Wednesday (IT)

Qingyu Zhu

Pratik Joshi Nithin Sivadas

Brandon Pondor Zihan Wang

Thomas Coppeans