

---

2024 CEDAR STUDENT POSTER CONTEST

# Poster Awards

---

# *Participation*

Tuesday (MLT + IT): **53** posters

Wednesday (IT): **52** posters

---

---

# Acknowledgments (Tuesday)

## **MLT+IT Judges** (*Lindsay Goodwin, Nathaniel Frissell*)

---

Jiarong Zhang

Federico Gasperini

Lynn Harvey

Chihoko Cullens

Mark Conde

Ningchao Wang

Tyler Mixa

Dominique Pautet

Yucheng Zhao

Shuang Xu

Titus Yuan

Sharon Vadas

Ercha Aa

Jing Liu

Qian Wu

Russell Cosgrove

Don Hampton

Meghan Burleigh

Craig Heinselman

Chen Wu

Wenjun Dong

---

---

# Acknowledgments (Wednesday)

## **IT Judges** *(Titus Yuan, Matt Zettergren)*

---

Haonan Wu

Preeti Bhaneja

Erin Lay

Claire Gasque

Ed Mierkiewicz

Shantanab Debchoudhury

Jaime Guerrero

Komal Kumari

Sebastijan Mrak

Devin Huyghebaert

Hong Yu

Pablo Reyes

Cheng Sheng

John Emmert

Diana Loucks

Aimee Merkel

Shibaji Chakraborty

Meers Oppenheim

Esayas Shume

Kristina Lynch

Sovit Khadha

Colin Triplett

---



!Thanks to *Liyang Qian* and *Maggie Costley* for helping us organize  
and stay on track!

# Evaluations

**CEDAR Workshop Student Poster Competition:  
1st Round Score Sheet**

*Judges grade the poster in 6 weighted categories from 1 (low) to 5 (high)*

Student's Last Name \_\_\_\_\_ First Name \_\_\_\_\_ Institution \_\_\_\_\_ Poster # \_\_\_\_\_

Below Average 1	2	Average 3	4	Above Average 5	Weight	Points
<b>1. Is the title well-chosen and informative? (max 25 points)</b>						
The title is not clearly relevant to the content.		The title mostly conveys the content of the poster.		The title is clearly worded, succinct, and informative.	5	
<b>2. Are the problem and objectives clearly stated, emphasizing the new or original aspects of the work? (max 75 points)</b>						
The problem and motivations of the study are not clearly stated.		The problem and motivations are mostly conveyed, connections to prior work and implications for the science / community are mentioned.		The problem and motivations are clearly stated, with impressive connections to prior work and implications for the science / community.	15	
<b>3. Are the methodology and results clearly presented, including clear figures, graphs, etc., as required? (max 125 points)</b>						
Methodology and results are vague or absent; figures, graphs, etc., are not clear.		Methodology and results are mentioned, but some aspects are unclear or lack relevant information; figures, graphs, etc. are adequate.		Methodology and results are comprehensively and clearly demonstrated, using figures, graphs, etc., beneficially.	25	

Each question ranked 1-5; then a weight applied

*Written comments are included at the end of the score sheet*

Two rounds of scoring:  
one without student present, one with...

followed by lots of deliberation :)

---

**Please pick up your evaluations at the  
registration desk!**

---

---

# Tuesday Awards (MLT + IT)

---

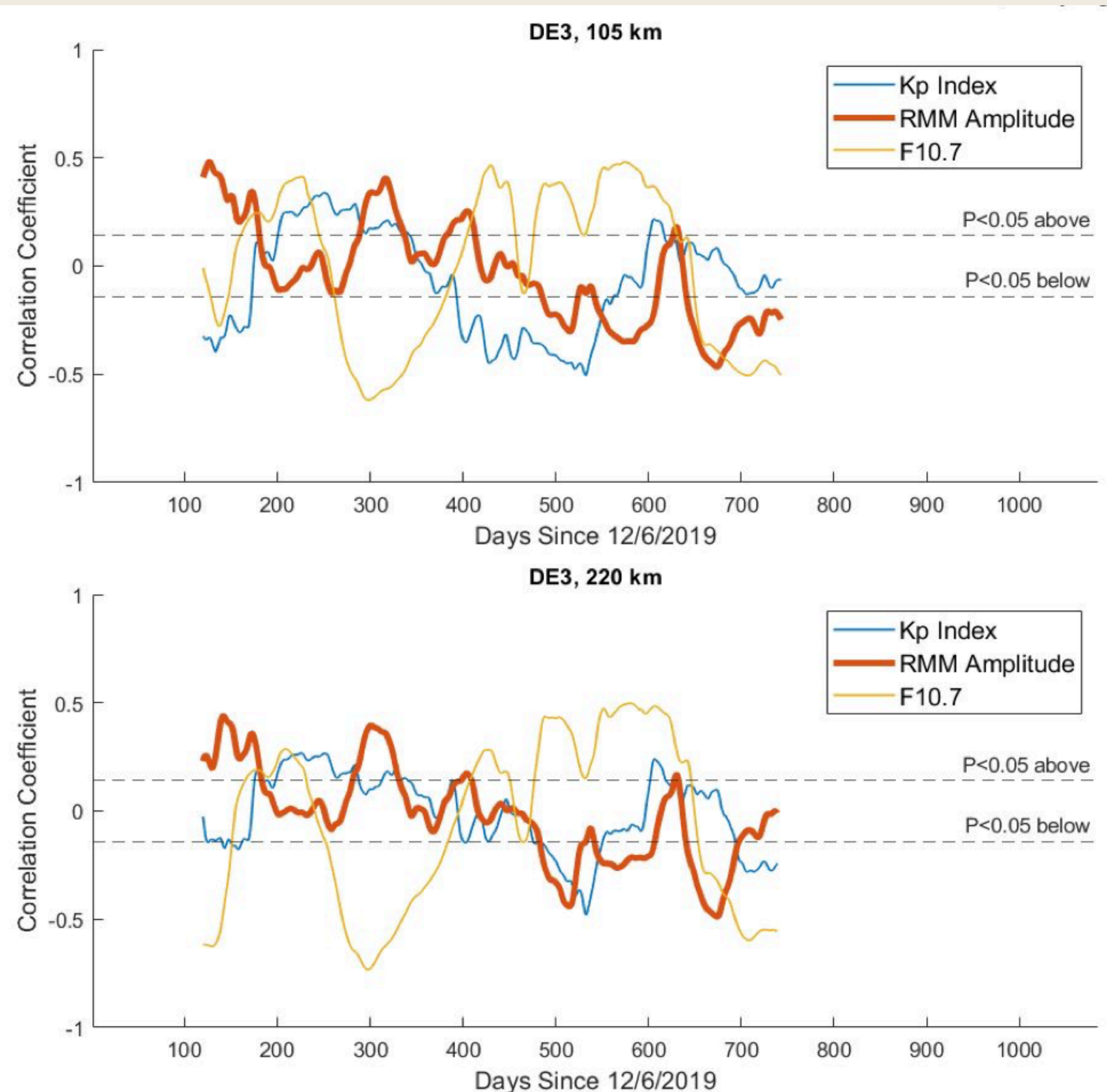
# Undergraduate Award

**Author: William McClung**

**Title: *Investigating Connections Between Tropical Tropospheric Convection and Thermospheric Intra-seasonal Variability of Wind and Temperature Profiles***

**Institution: Orion Space Solutions**

**Poster: COUP-3**





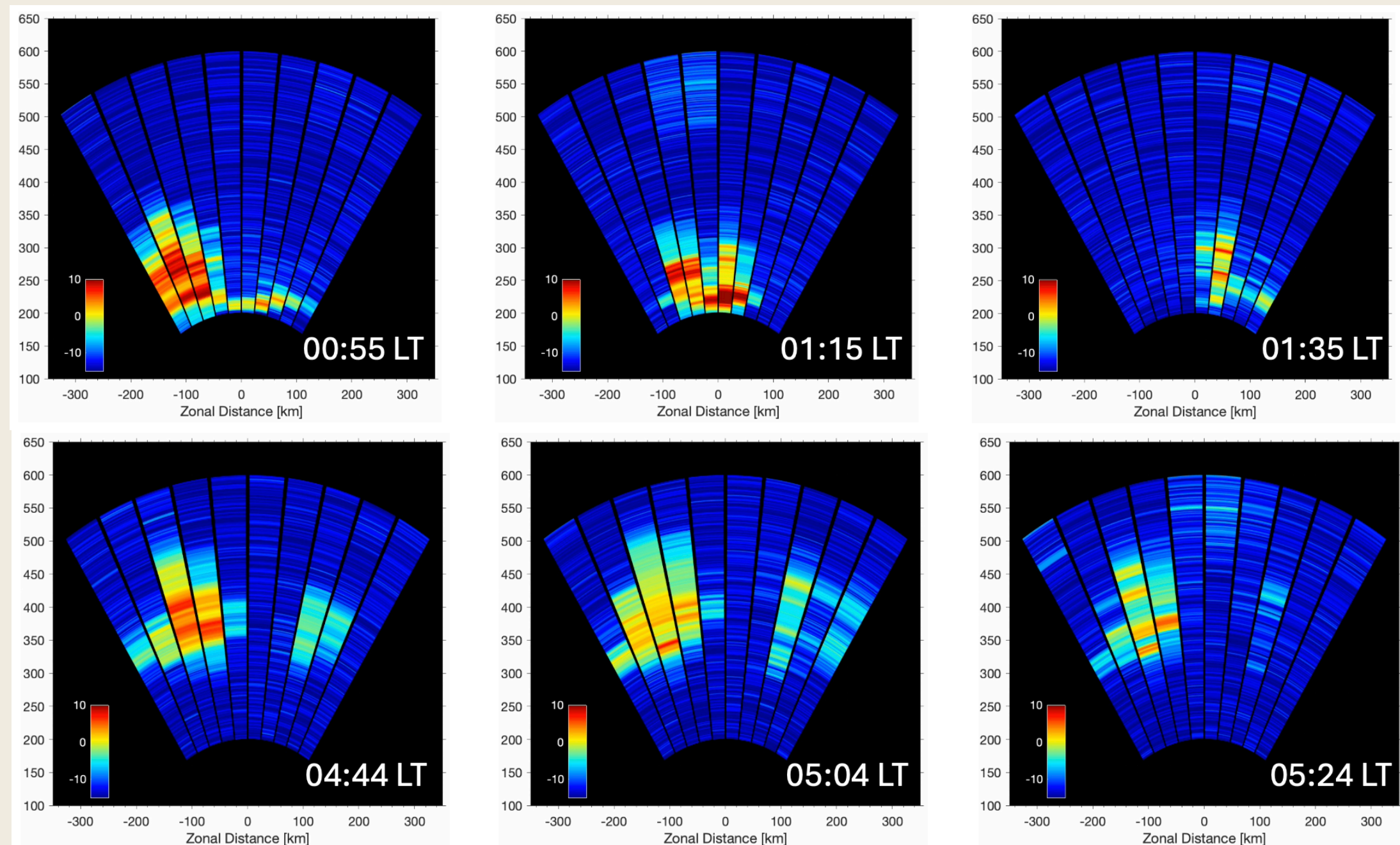
# Honorable Mention

**Author: Alexander Massoud**

Title: *Two-dimensional UHF radar studies of post-midnight ESF at the Jicamarca Radio Observatory*

Institution: UT Dallas

Poster: EQIT-3





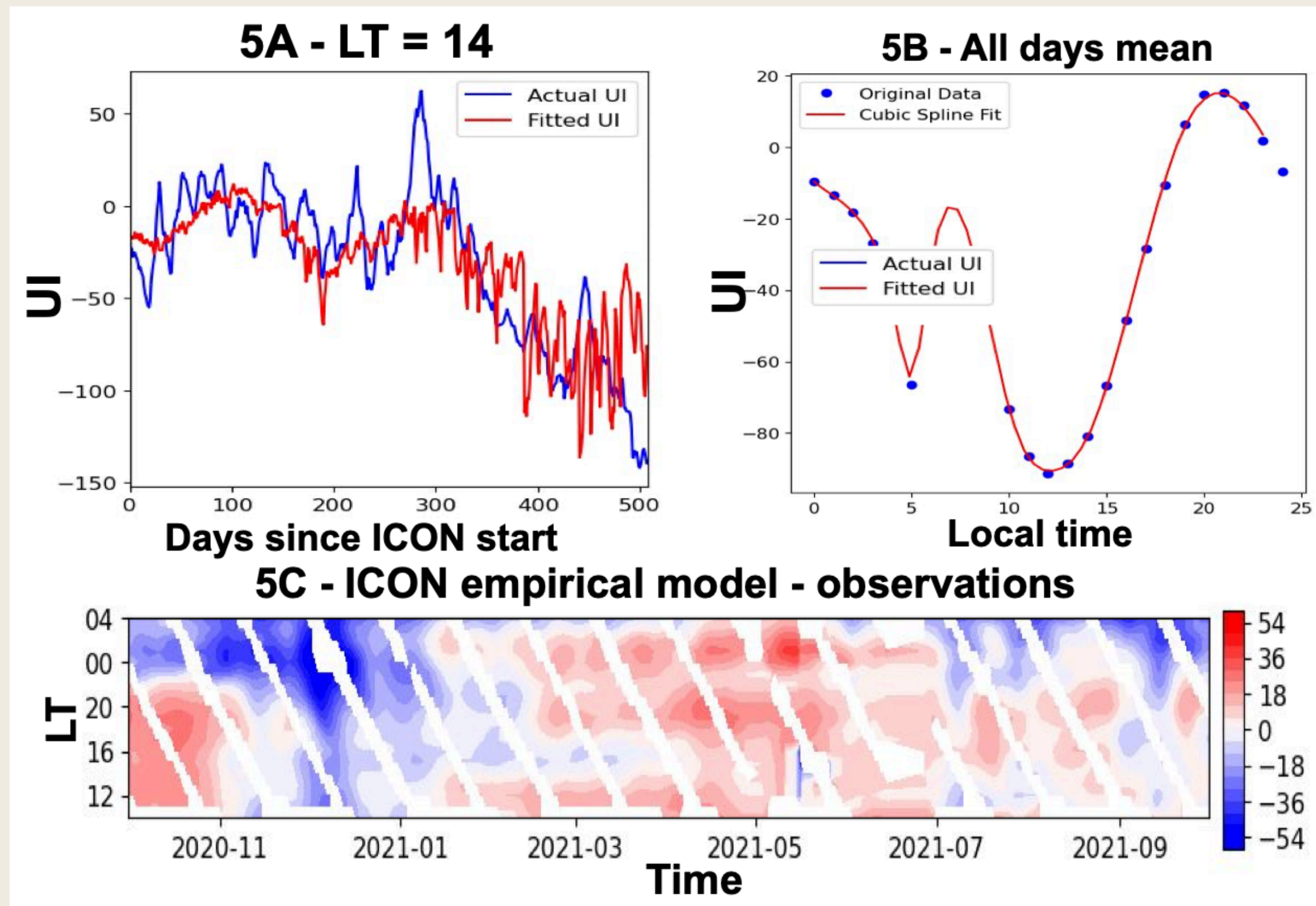
# Second Place

**Author: Ben Martinez**

Title: *Photochemistry vs. dynamo as drivers of day-to-day variability in the ionosphere*

Institution: Clemson University

Poster: COUP-2



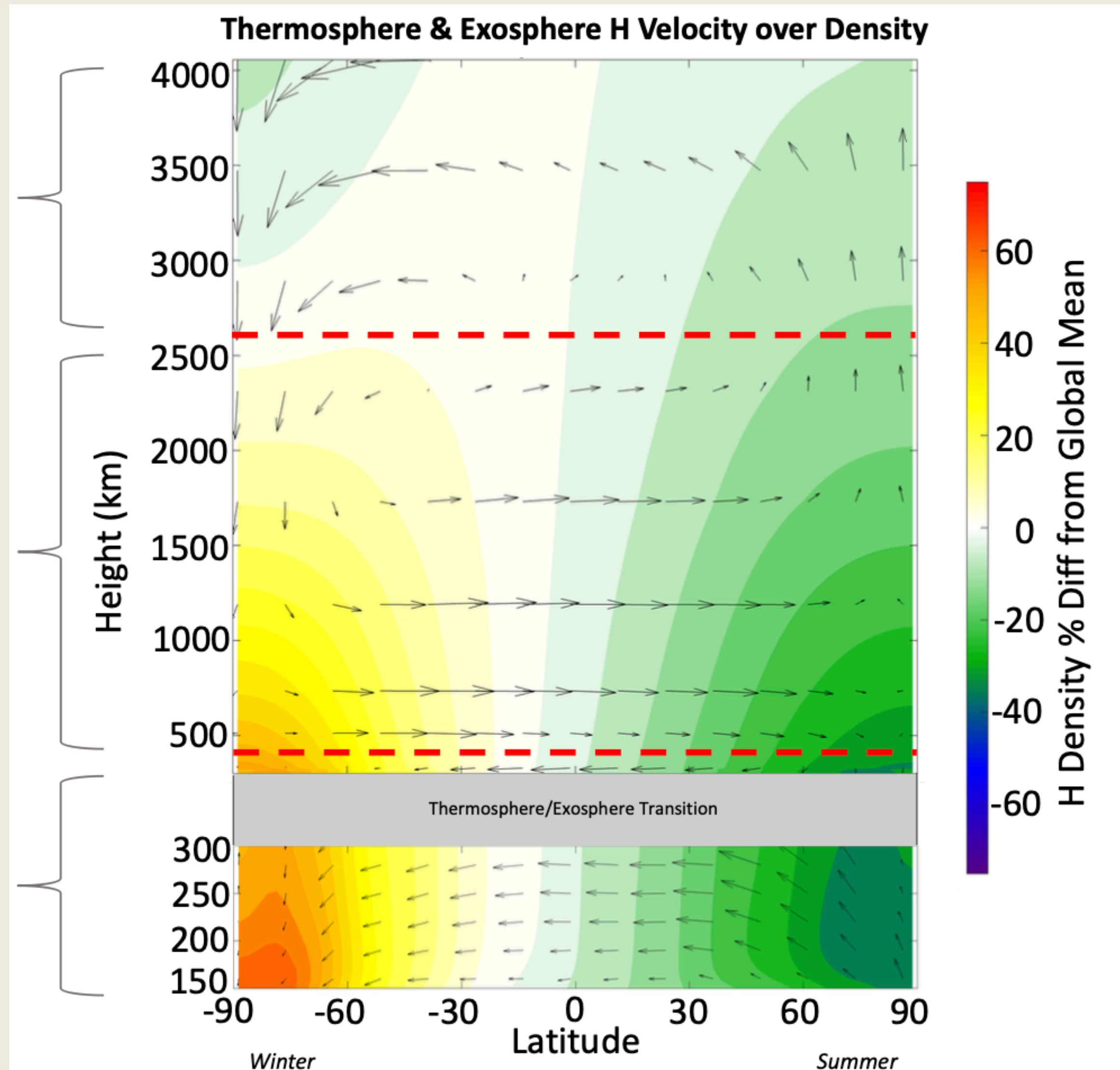


Fig 6. June solstice run. Quiver plot of H velocities over contour plot of H density percent difference from global mean. Red dashed lines separate left/right directionality of H velocity.

# First Place

**Author: Sarah Luetngen**

*Title: A Coupled Thermosphere-Exosphere Model: Results and Implications for Hydrogen Transport*

**Institution: University of Colorado Boulder**

**Poster: SOLA-1**





---

# Wednesday Awards (IT)

---

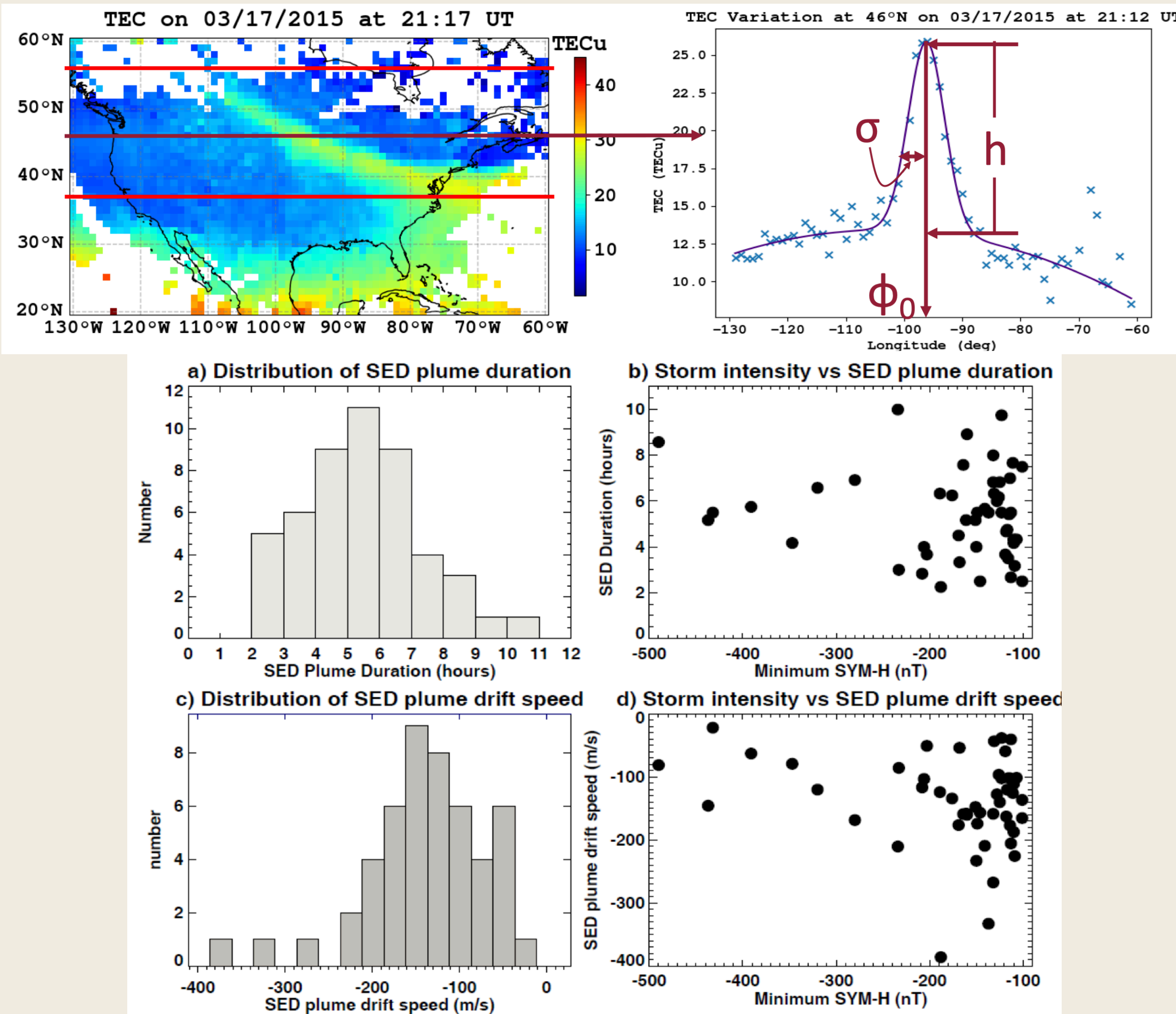
# Undergraduate Award

**Author: Patricia Dzwill**

**Title: *A Statistical Analysis of the Morphology of Storm-Enhanced Density Plumes***

**Institution: NJIT and MIT Haystack**

**Poster: MDIT-1**





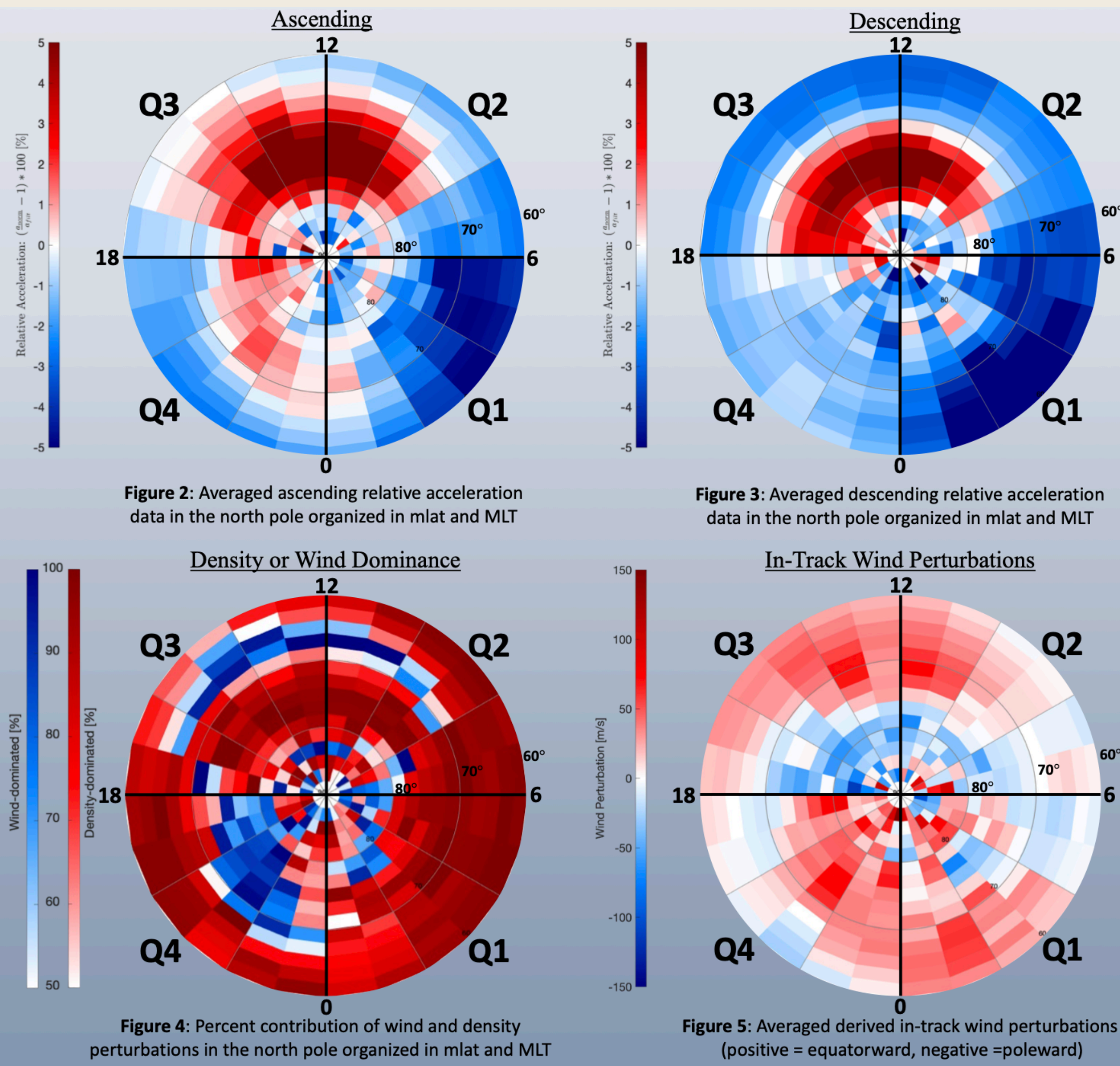
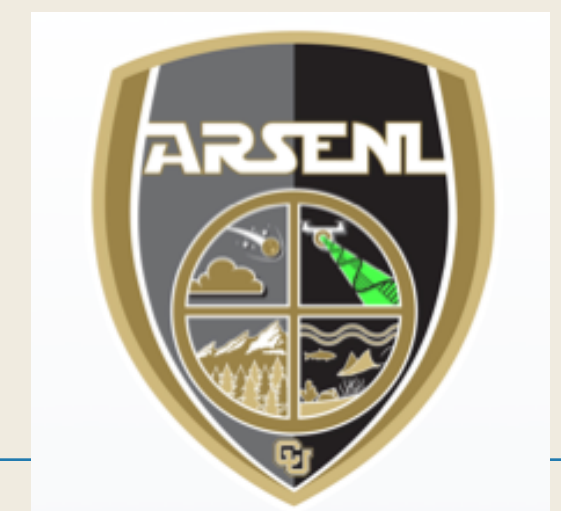
# Honorable Mention

**Author: Anton Buynovski**

Title: *Investigation of Thermosphere Mass Density Perturbations Ascribed by CHAMP Observations*

Institution: University of Colorado Boulder

Poster: ITIT-3





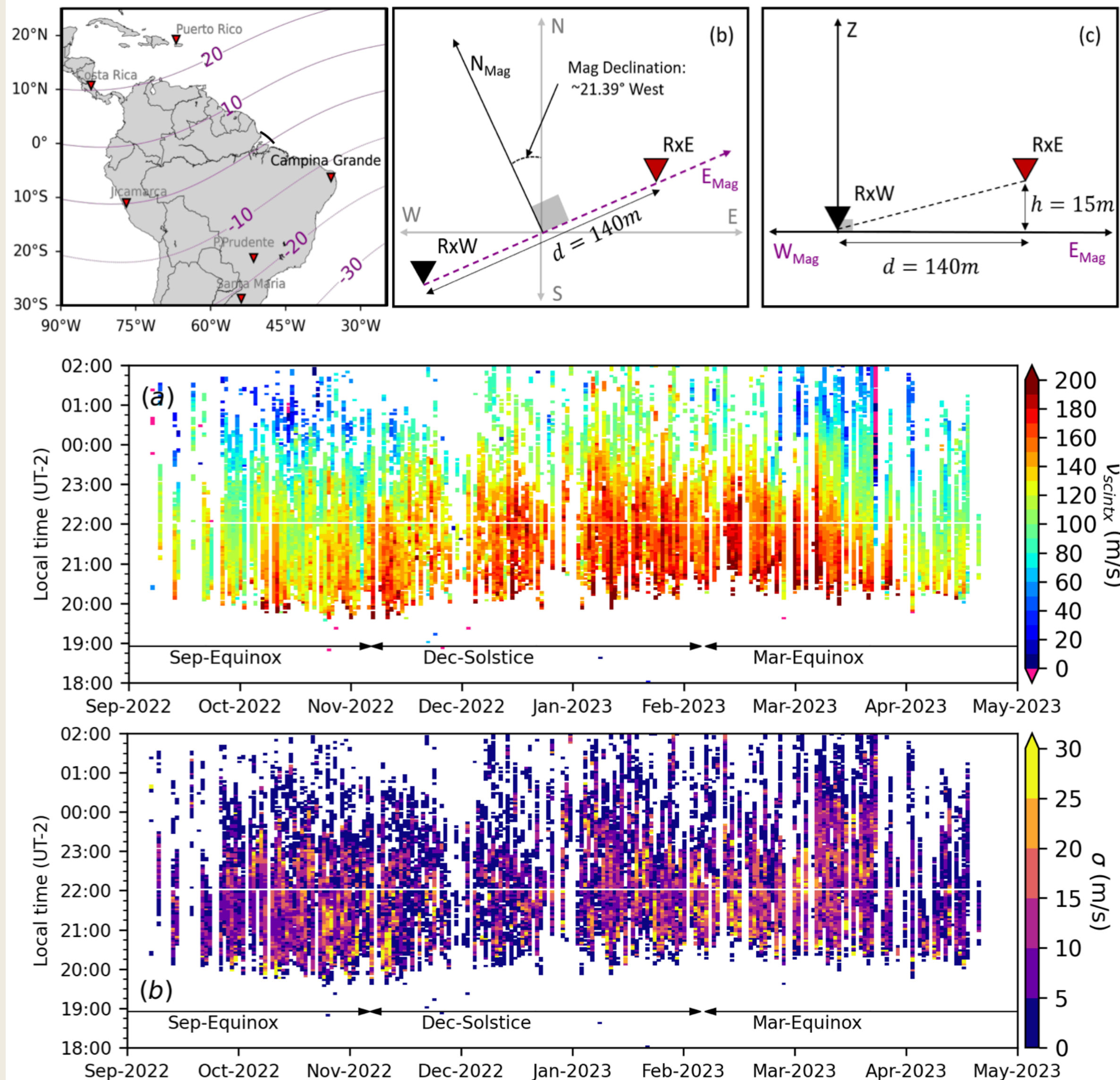
# Second Place

**Author: Josemaria Gomez Socola**

Title: *Estimation of low-latitude irregularity drifts using closely spaced low-cost scintillation monitors (ScintPi) and multi-constellation GNSS signals*

Institution: UT Dallas

Poster: ITIT-6



**Fig. 6** – Panel (a) shows 3-min averaged irregularity drift. (b) Standard deviations for each 3-min average drift. Different seasons determined as  $\pm 45$  days around equinox and solstice days are also indicated.



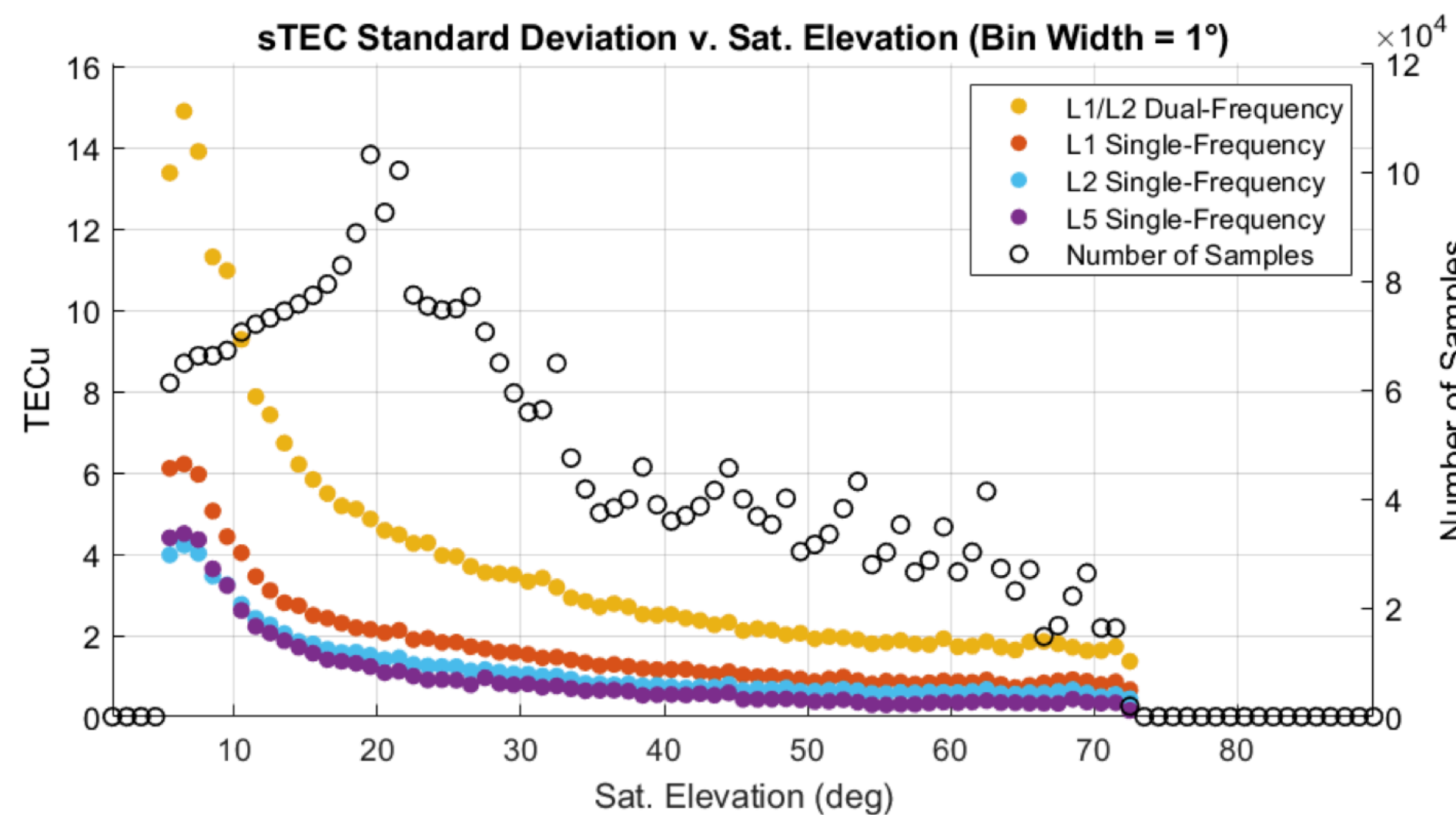
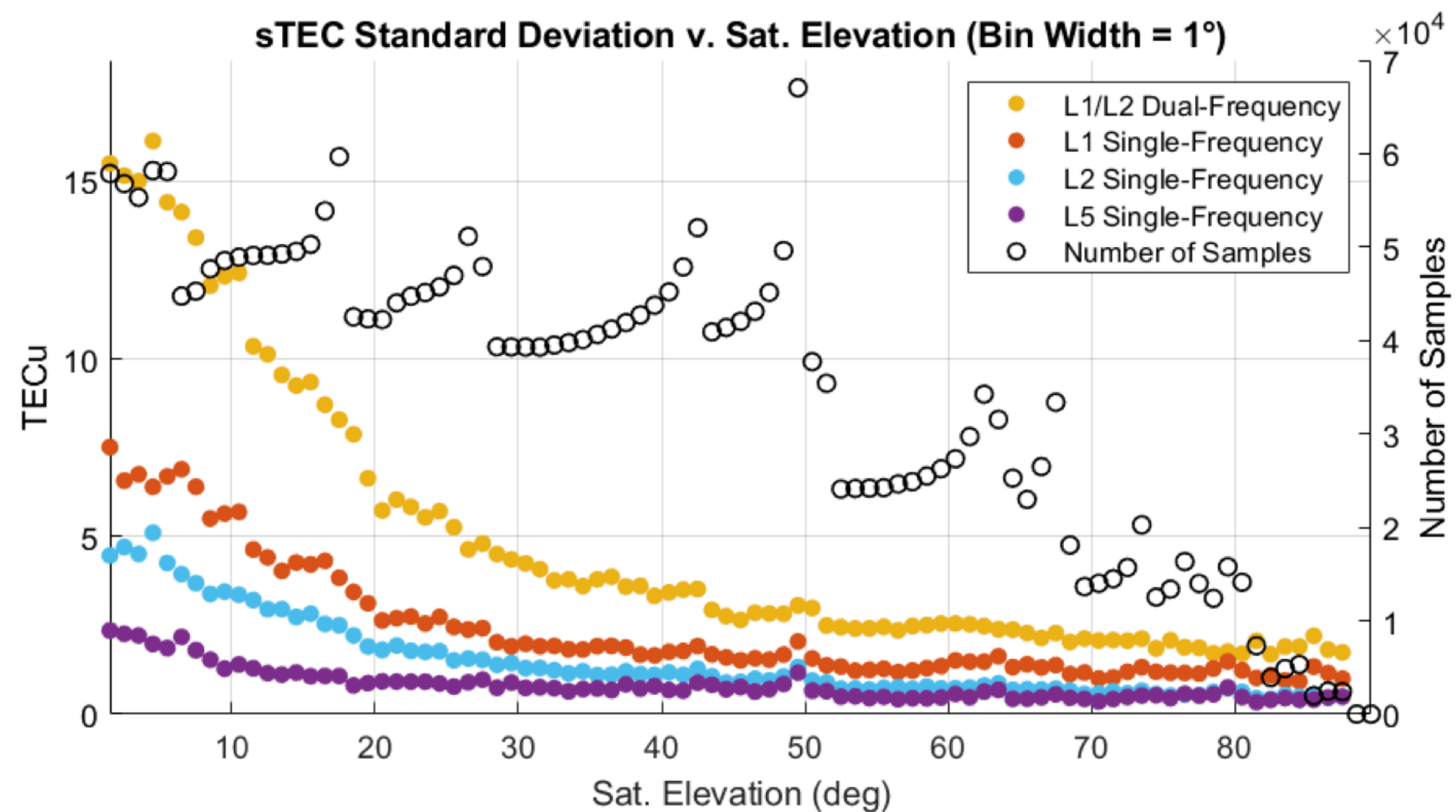
# First Place

**Author: Madeline Evans**

Title: *Estimating Ionospheric TEC Using Single-Frequency Wideband Low Elevation GNSS Signals*

Institution: The University of Colorado Boulder

Poster: ITIT-4



University of Colorado  
Boulder

---

# Student Poster Awards

*Tuesday (MLT+IT)*

William McClung

Alexander Massoud

Ben Martinez

Sarah Luetngen

*Wednesday (IT)*

Patricia Dzwill

Anton Buynovski

Josemaria Gomez Socola

Madeline Evans

*Posters can be viewed on CEDAR website!*

---