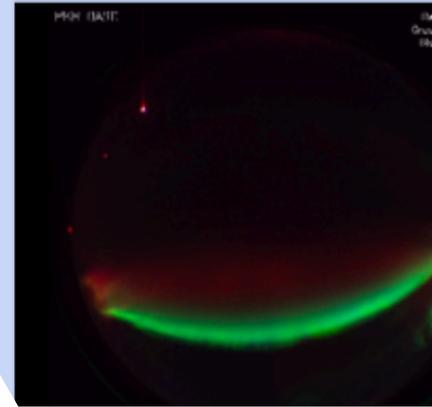
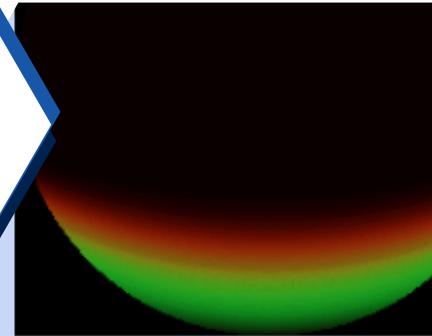


2025 Tomorrow's Innovator Award

BEST GRADUATE/POST-GRAD
STUDENT INNOVATION DISCLOSURE

Virtual Aurora Camera Model & Code



Innovator:
Cameron Westerlund

- Developed by Cameron Westerlund, PhD Student in Space Physics advised by Dr. Don Hampton.
- Created a model that accurately images transparent volumes that emit light, like the aurora, by assigning points in a virtual sky to the pixels of a virtual camera.
- After populating a virtual sky with emissions based on user prescribed conditions, this model generates synthetic images of the aurora in multiple wavelengths.
- When coupled together with other models, this model helps answer open questions about scientific techniques that explore the aurora.

