

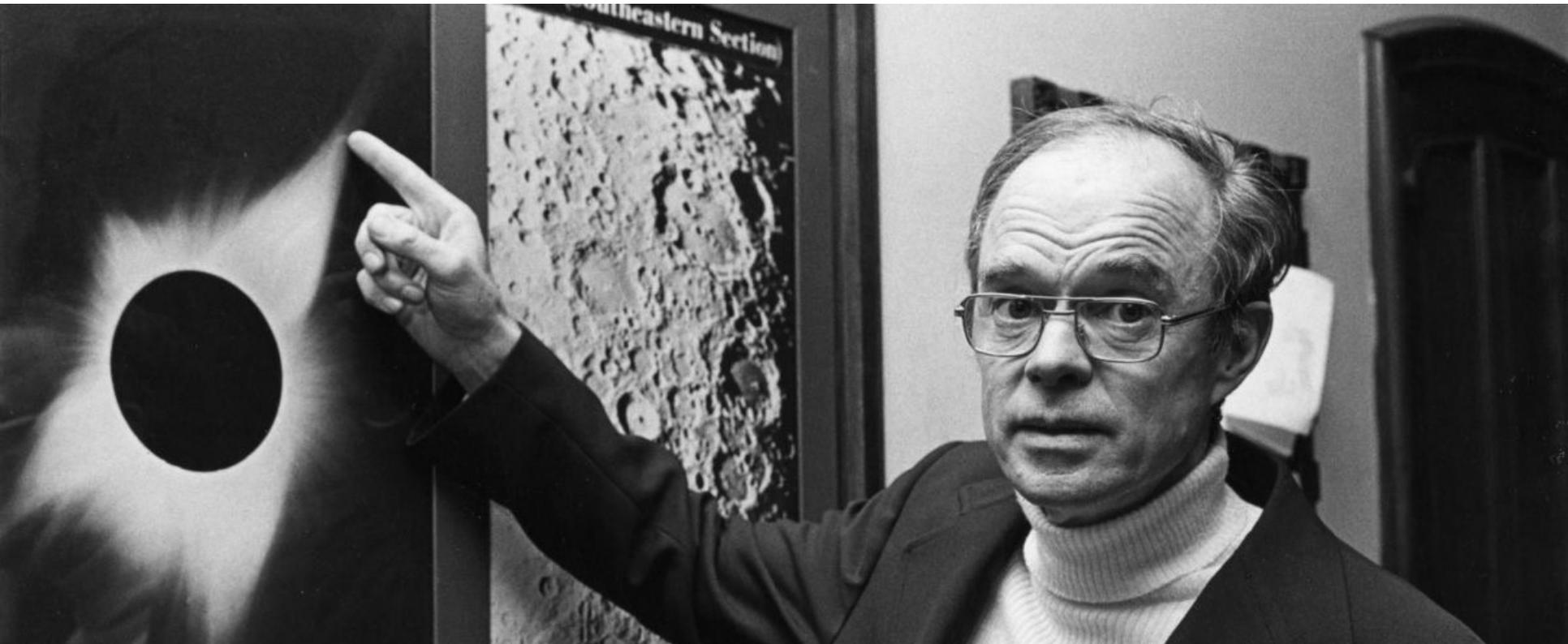
# Parker and Siscoe: Giants of Heliophysics and Space Weather

Mark Moldwin

Arthur F. Thurnau Professor  
Space Sciences and Engineering  
University of Michigan



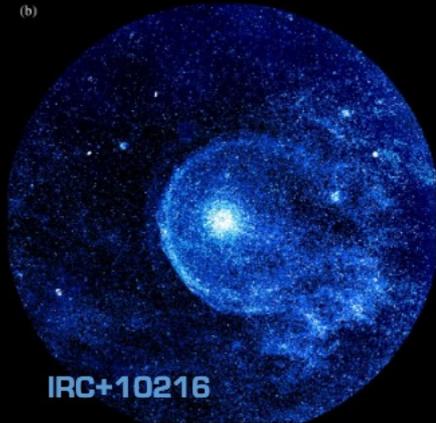
In Memory of Eugene Parker  
(1927- March 15, 2022) A Native  
Michigander and Giant of our  
Understanding of the Heliosphere



# Heliosphere: the only known Habitable Astrosphere

Mira

(b)



IRC+10216



Sol

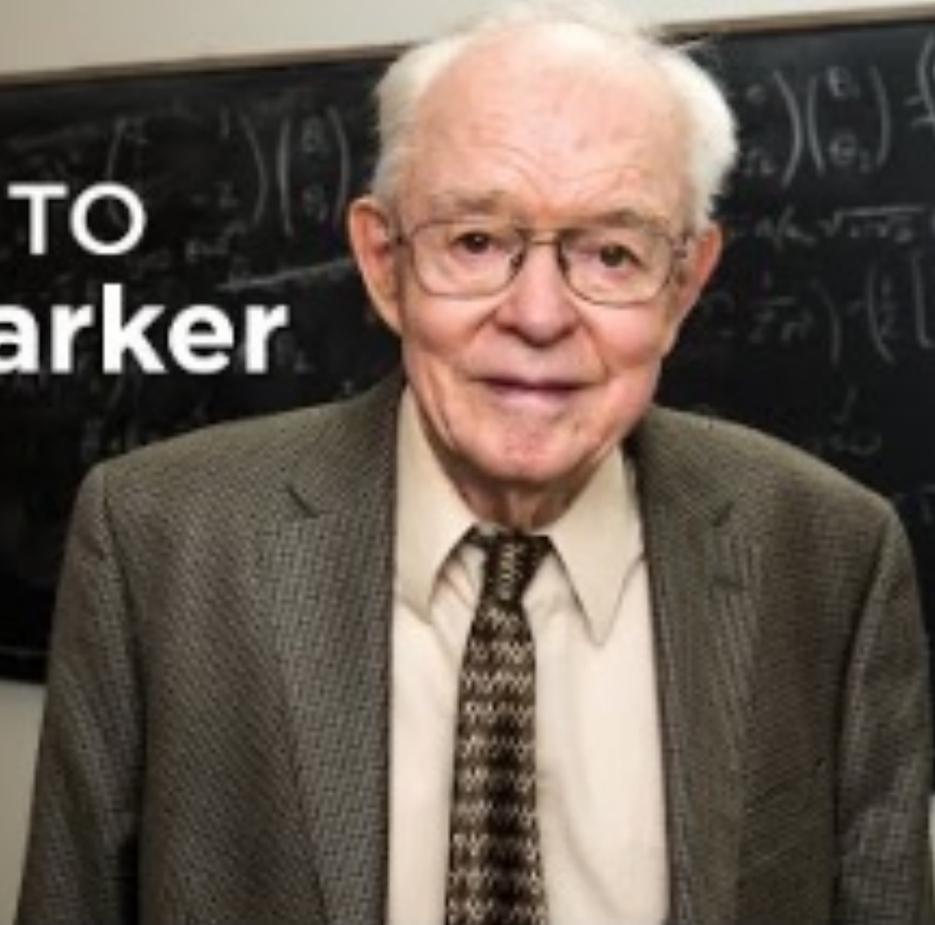
G2V Main Sequence Star  
24 km/s  
• Habitable

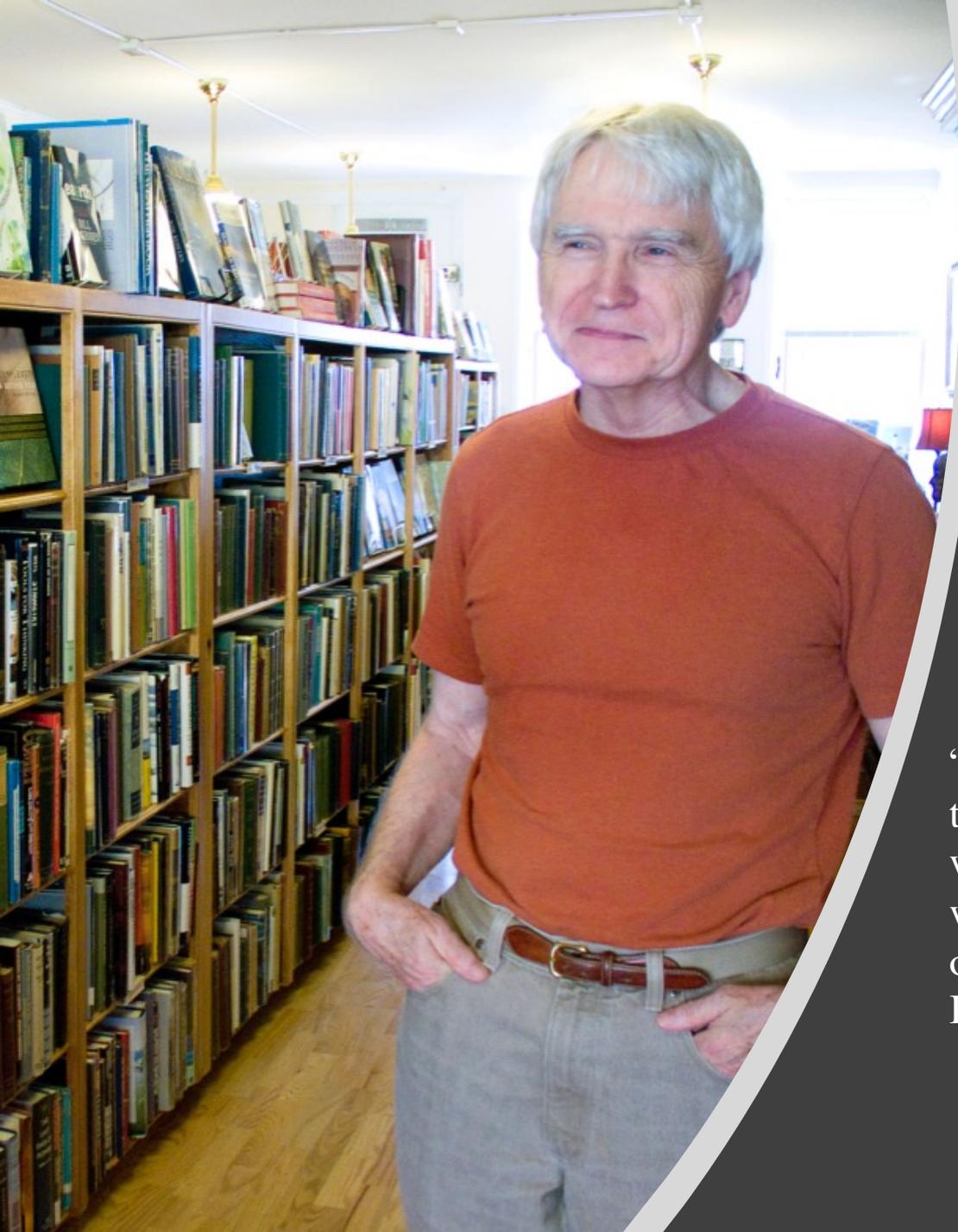
Zeta Ophiuchi

LL Orionis

BZ Camelopardalis

# TRIBUTE TO Eugene Parker





# In Memory of George Siscoe (1937-April 9, 2022)

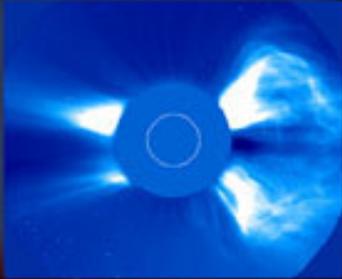
“George Siscoe, ... was an inspiring teacher and mentor of students. He was a soft-spoken intellectual leader, whose work will have lasting impact on our field. He was a gentle soul...”  
Bengt Sonnerup, 2022

# Depth, Breadth and Consensus

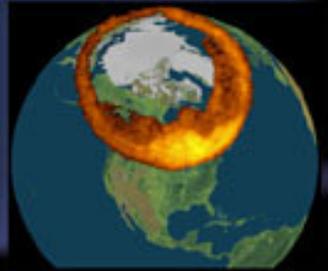
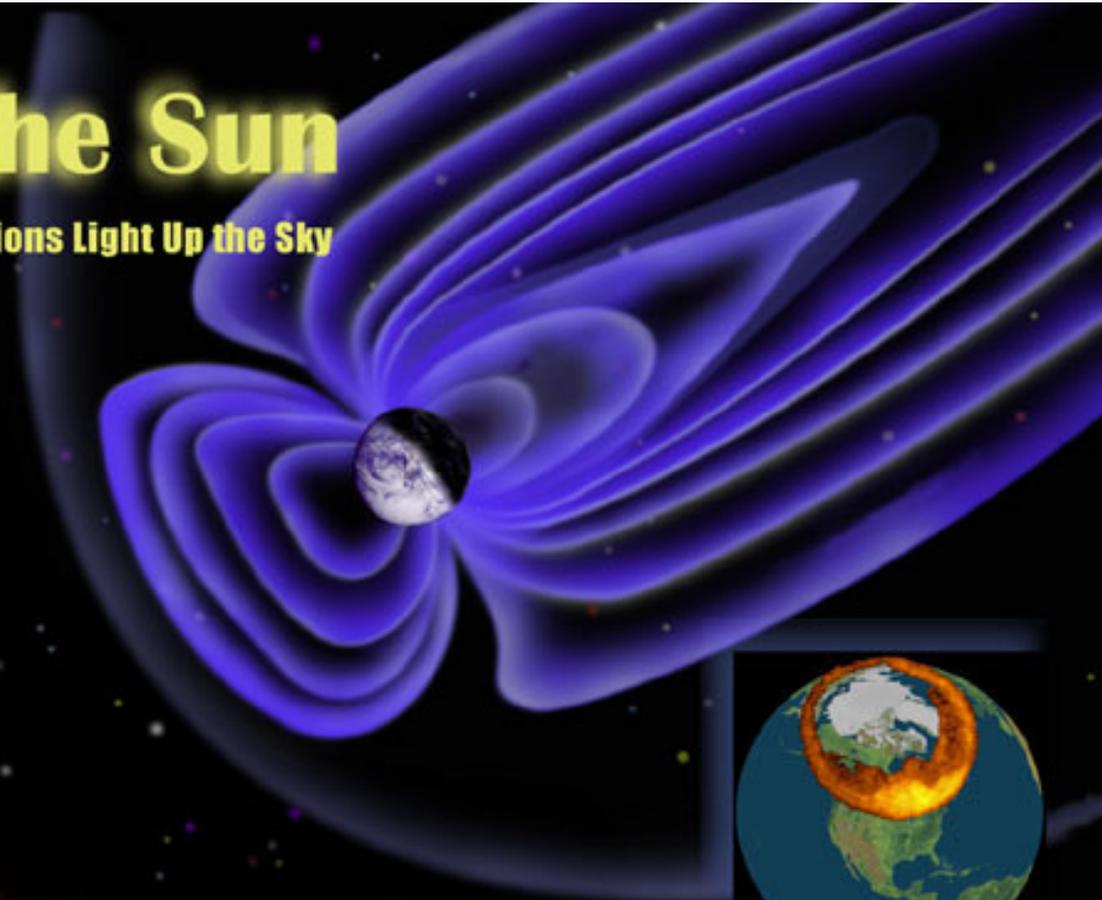
- Published >330 papers
- Started the HSS with Schriver
- Intellectual Leader behind NSF GEM and Space Weather as a discipline
- Gifted data analyst and conceptual modeler
- Unified disparate observations; helped resolve controversies with “conjectures”

# Storms from the Sun

Coronal Mass Ejections Light Up the Sky



Particles are blasted from the Sun. . .



Millions of amps surge through our atmosphere ...



...And make bright Northern lights

