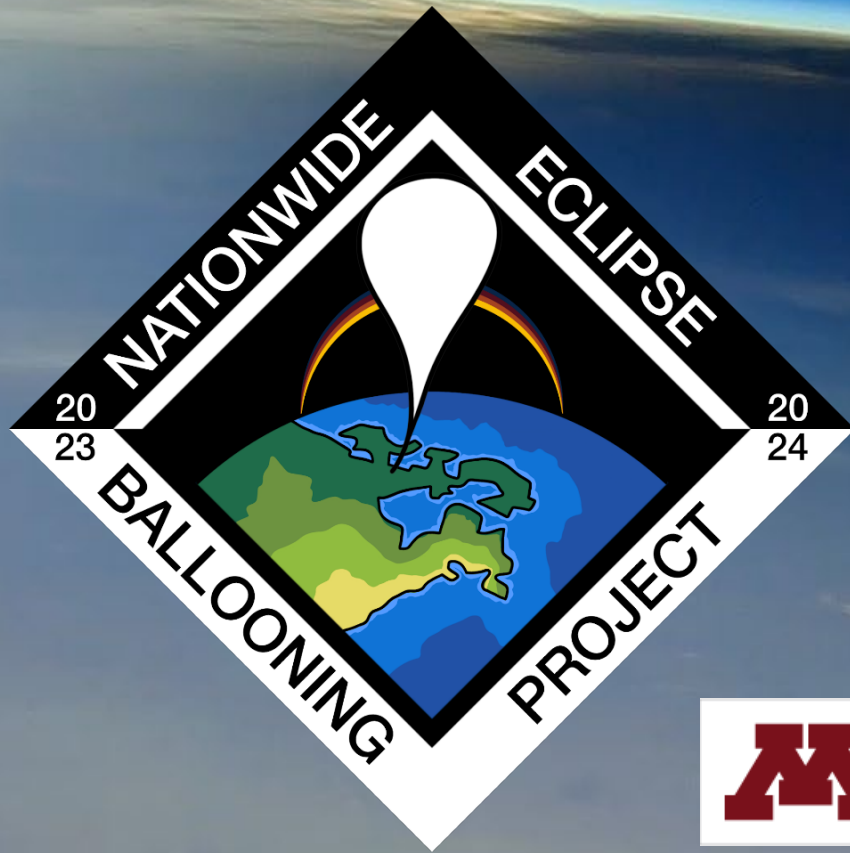


Nationwide Eclipse Ballooning Project: Science from the edge of space

Dr. Angela Des Jardins

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Stratospheric Ballooning

- Space-like environment
- Multidisciplinary
- Mission-type structure

~100,000 feet up
Typical flights last ~2
hours



Tracks



Atmospheric Science



Engineering

Student Participation

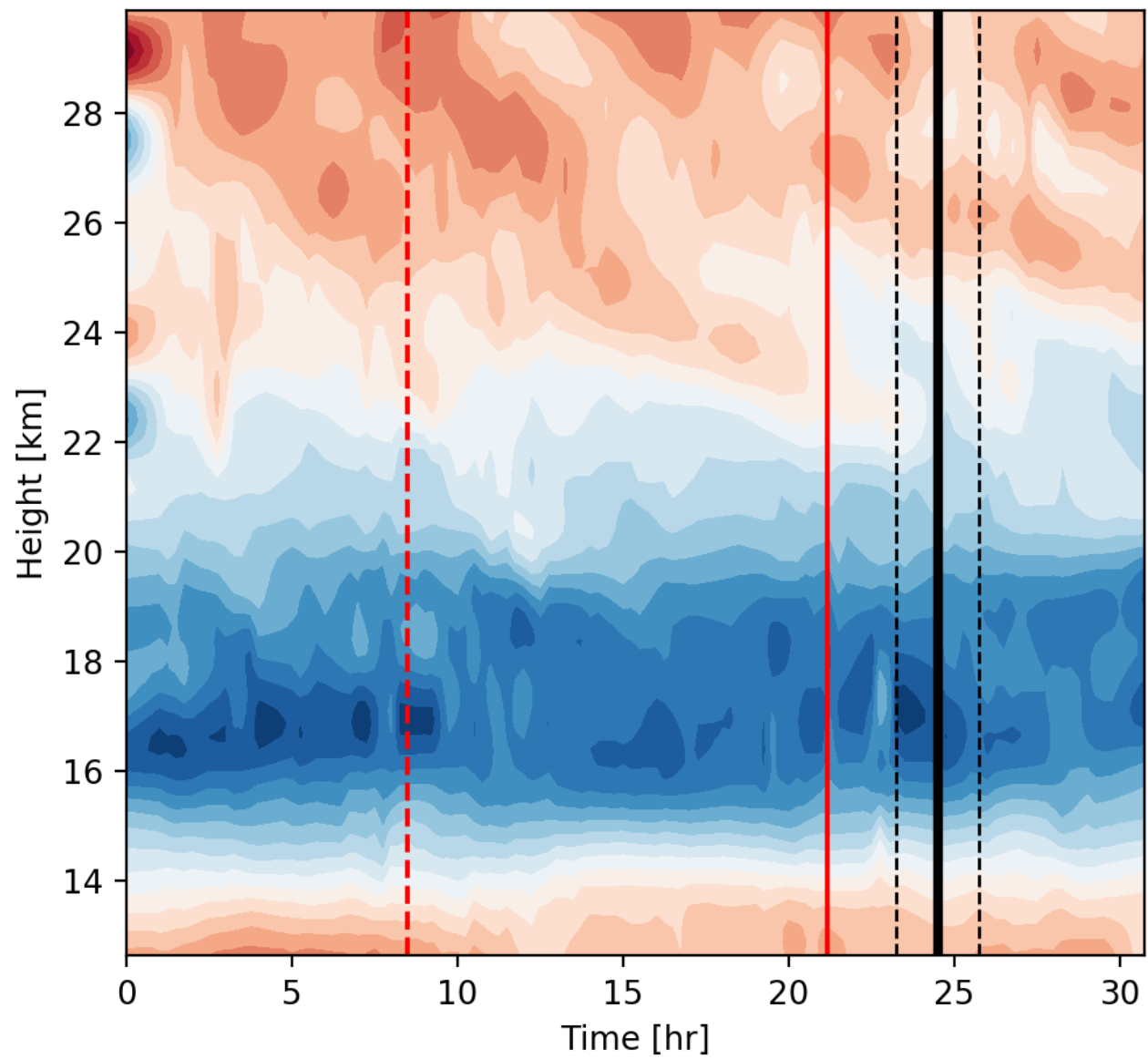
- 53 Teams
- 850+ Students
- 63% Total Underserved



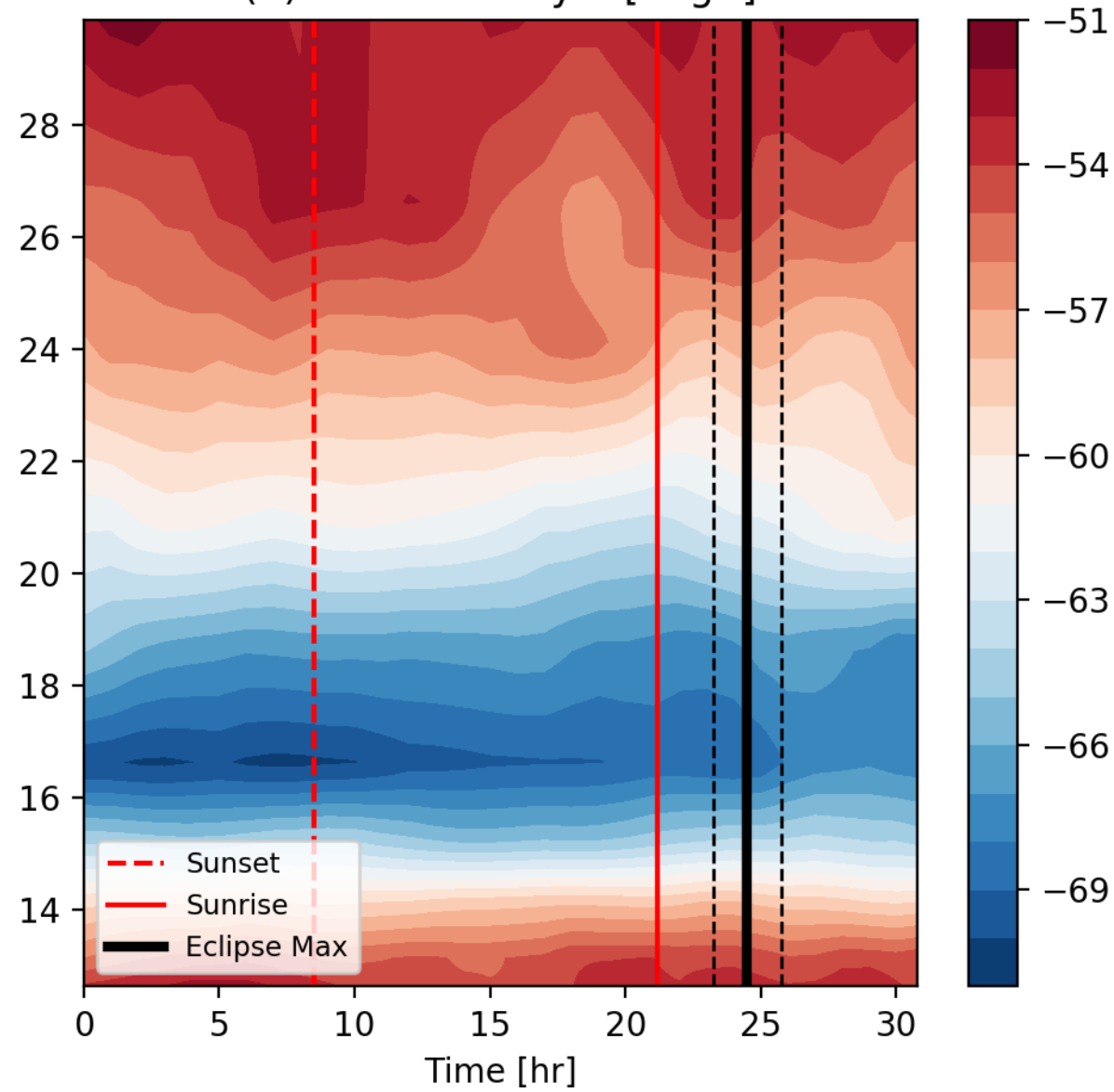
Science Goals



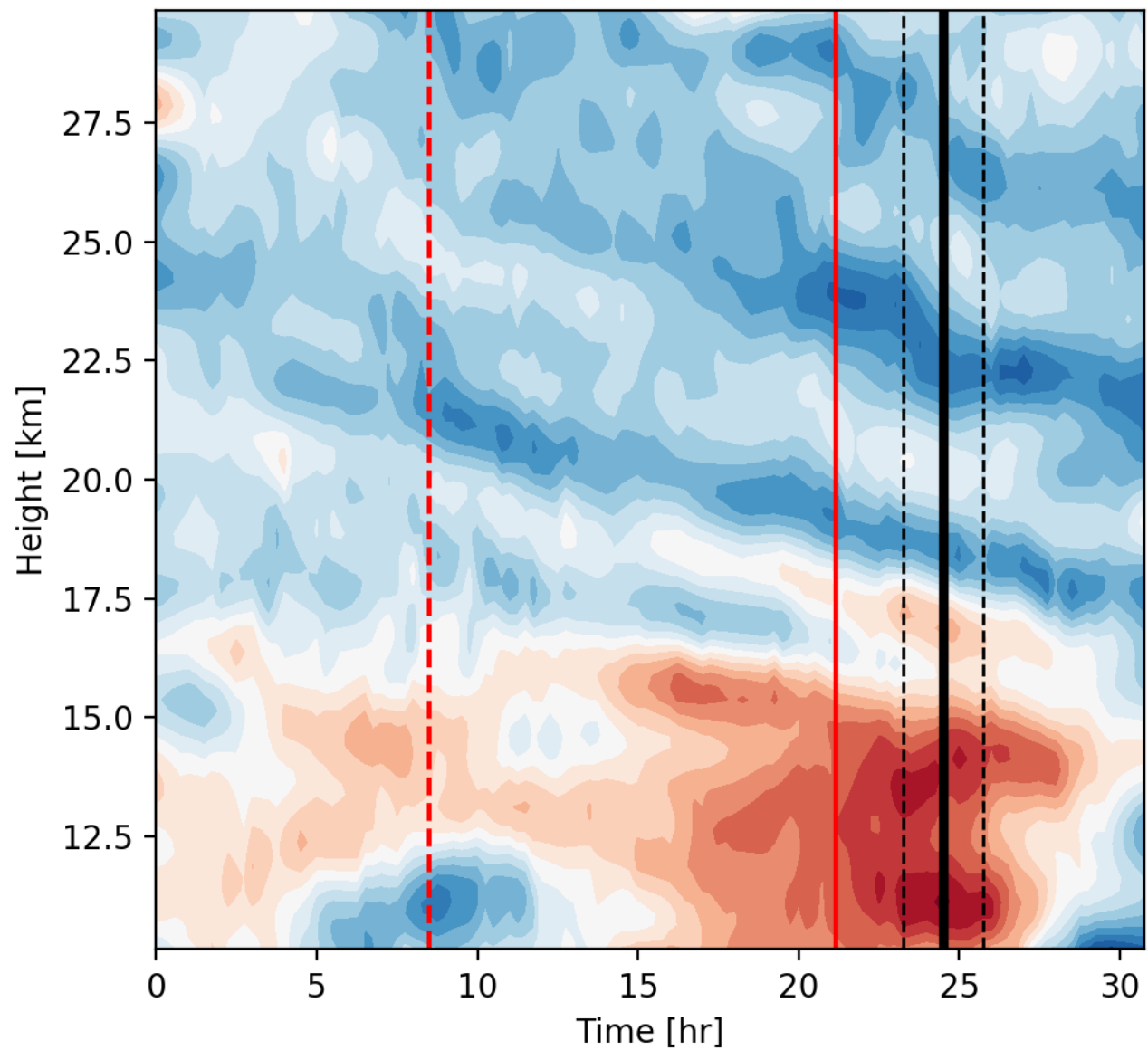
(a) Supersite T [degC]



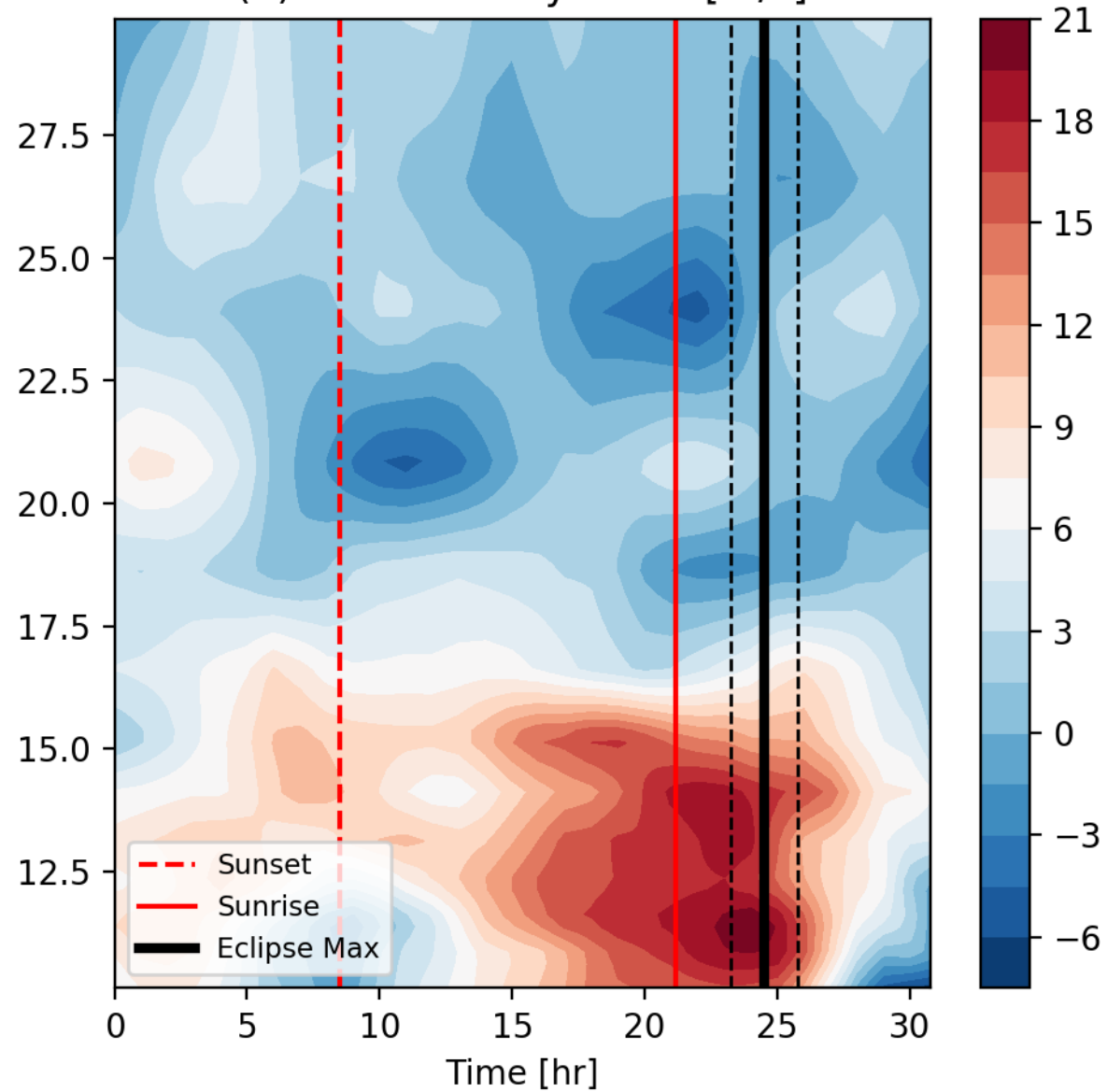
(b) ERA-5 Hourly T [degC]



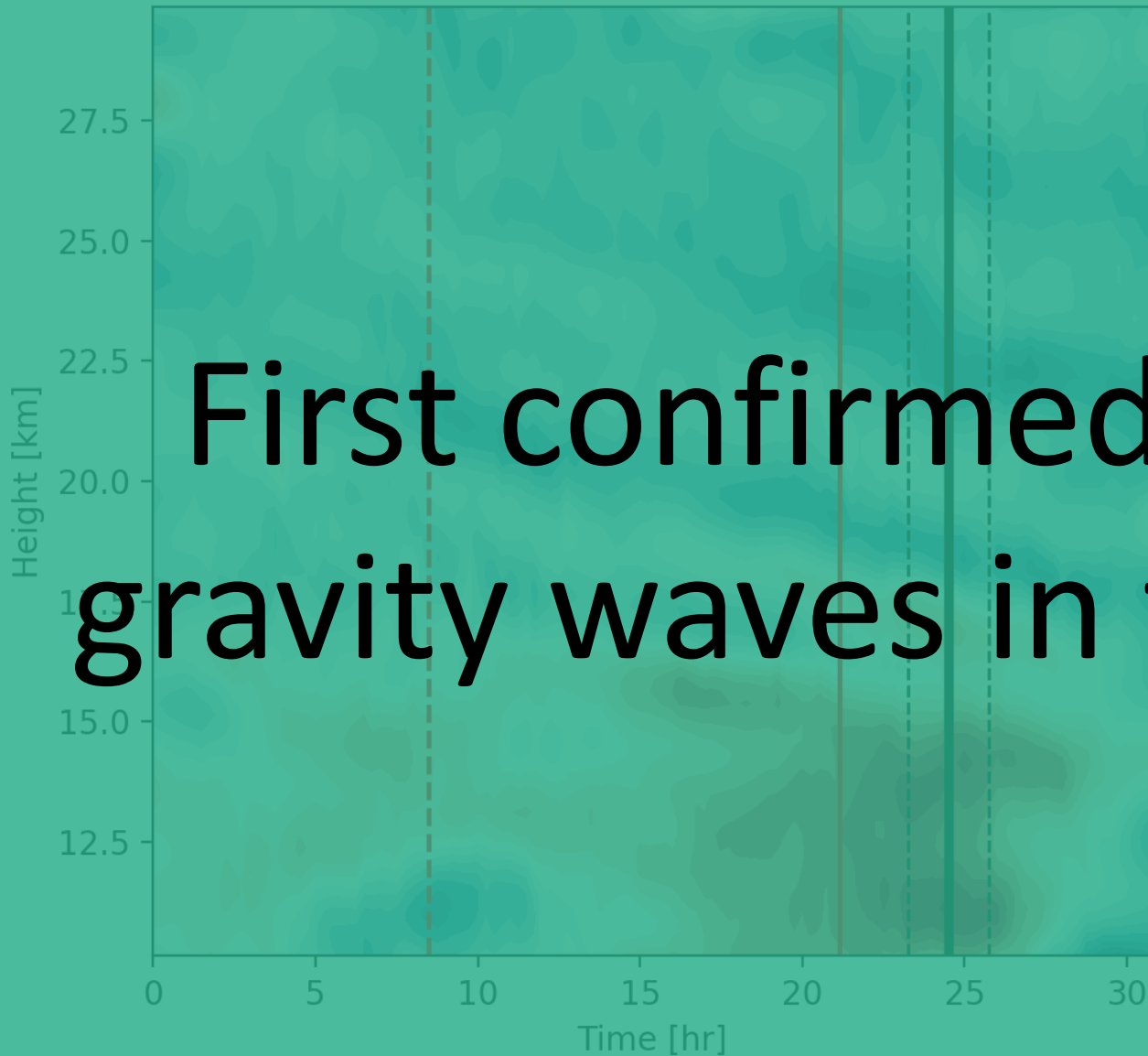
(a) Supersite Vwnd [m/s]



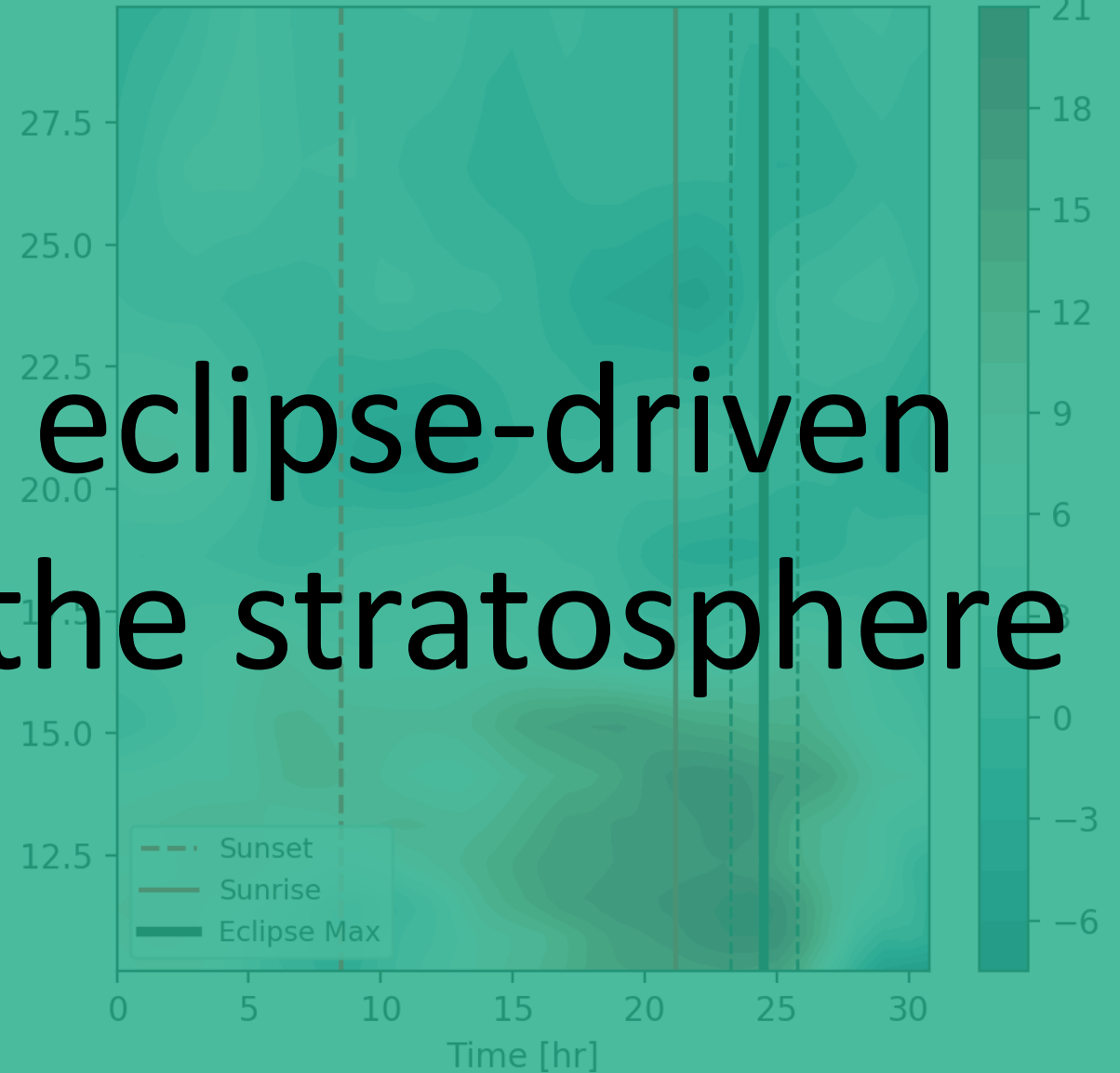
(b) ERA-5 Hourly Vwnd [m/s]



(a) Supersite Vwnd [m/s]



(b) ERA-5 Hourly Vwnd [m/s]



First confirmed eclipse-driven gravity waves in the stratosphere





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Figures and videos

