



National Aeronautics and
Space Administration

SCIENCE MISSION DIRECTORATE

David Padgett

TSU Pre-Service Teachers Participate in GLOBE
Data Collection During the August 21 Eclipse
Event

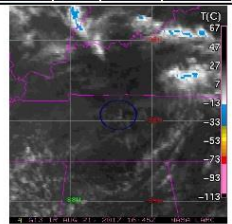
October 30, 2017

GLOBE Mission EARTH

TSU Pre-Service Teachers Participate in GLOBE Data Collection During the August 21 Eclipse Event

On the first class day of the fall semester, pre-service teachers enrolled in World Regional Geography (GEOG 1020) sections collected ambient air temperature, surface temperature, and cloud cover data, before, during, and after the August 21 solar eclipse event. Data was collected using “traditional” GLOBE methods and with the GLOBE Eclipse Application.

GLOBE Cloud Observation and NASA's Satellite Match

Ground Observation: 450829			GEO Satellite			
Latitude : 36.16		Longitude : -86.83	Latitude : 0.00		Longitude : -75.00	
Date: 2017-08-21		Universal Time: 17:04	Date: 2017-08-21		Universal Time: 16:50	
Opacity	Cloud Cover	Type	Altitude (km)	Opacity	Cloud Cover	Phase Temp(C)
Total Ground Cloud Cover: Broken (50-90%)			Total GEO Cloud Cover: 14.44 %			
H I G H						
M I D			2.52	Transparent 2.11	Clear (<10%) 4.44	water 18.46 (C)
L O W	Opaque (50-90%)	Cumulus	0.93	Translucent 3.52	Clear (<10%) 10	water 27.88 (C)
Sky Visibility : no report		Sky Color : no report				
Surface Conditions						
Snow/Ice	No	T(C)=Temperature(Celsius)				
Standing Water	No					
Muddy	No					
Dry Ground	Yes					
Leaves on Trees	Yes					
Raining or Snowing	No					
Temp (Celsius)	51					




THE GLOBE PROGRAM

David Padgett

My Observations

08/21/2017 Clouds



Time (UTC): 15:38:00
Site: 169EF152022

Total Sky
Cloud Cover: Few (1-10%)
Sky Color: Pale Blue
Sky Clarity: Clear

High Level Clouds (not observed)

Date



<https://www.facebook.com/globemissionearth>

