

PARI -APP Home School Climate Science Camp Schedule-Summer 2010 (Downloadable PDF)

Sunday August 15 - Arrival and Orientation

Afternoon (3 PM - 5 PM): Arrival and registration

Dinner (5 PM - 6 PM)

Evening (6 PM - 10 PM): Orientation and Night Sky; Movie: *Inconvenient Truth*

Monday August 16-Meteorology and Climate Science Day

Breakfast (8 AM - 9 AM)

Morning (9:00 AM - Noon): Introduction to meteorology and climate; Cloud observations and meteorological measurements; Energy budget calculations-based on morning measurements

Lunch (12 PM - 1 PM)

Afternoon (1 PM - 5 PM) Meteorological instrument construction; Non-academic/Physical activity

Dinner (5 PM - 6 PM)

Evening (6PM – 10 PM): Meteorological instrument calibration; Introduction to aerosols and clouds

Tuesday August 17-Aerosols and Clouds Day

Breakfast (8 AM - 9 AM)

Morning (9:00 AM - Noon): Introduction to solar irradiance measurements using a solar pyranometer; Daily aerosol and solar radiation measurements and cloud observations

Lunch (12 PM - 1 PM)

Afternoon (1 PM - 5 PM) Generate sun-photometer calibration curve; Non-academic/Physical activity

Dinner (5 PM - 6 PM)

Evening (6PM – 10 PM): Video-NASA Earth Science Measurements

Wednesday August 18- Continuation of Measurements / Data Analysis and Visualization

Breakfast (8 AM - 9 AM)

Morning (9:00 AM - Noon): Daily aerosol and solar radiation measurements and cloud observations

Lunch (12 PM - 1 PM)

Afternoon (1 PM - 5 PM) Comparing data with NASA AERONET aerosol optical depth, AppalAIR meteorological and aerosol measurements; Non-academic/Physical activity

Dinner (5 PM - 6 PM)

Evening (6PM – 10 PM): Data Visualization

Thursday August 18- Space Science Curriculum

Note: A portion of this day could be used (if necessary) to complete climate science activities, if weather during beginning of week precludes scheduled measurements.

Breakfast (8 AM - 9 AM)

Morning (9:00-Noon) - Properties of Light, Astronomy basics

Lunch (12 PM - 1 PM)

Afternoon (1 PM - 5 PM) Night Sky and Constellation Orientation; Non-academic/Physical activity

Dinner (5 PM – 6 PM)

Evening (6 PM - 10 PM) Radio Astronomy, Image Processing

Friday August 19- Wrap-Up

Breakfast (8 AM - 9 AM)

Departure - 10 AM