

Oklahoma Weather Lab Shift Leader Manual

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Jenna Warner, Vice President

2019 – 2020

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Shift Leader Roster

| Shift | Time | Shift Leaders | Contact |
|----------------------|-------|------------------|--|
| Sunday Climate Shift | 7-9pm | James Cuellar | (281)-799-8097 jcuellar17@ou.edu |
| | | Isaiah Schick | (507)-429-5093 Isaiah.M.Schick-1@ou.edu |
| Monday Morning | 8-9am | Jenna Warner | (614)-372-9005 jennastormwarner@ou.edu |
| Monday Evening | 7-9pm | Amanda Novak | (978)-835-7168 Amanda.K.Novak-1@ou.edu |
| | | Andrea Gordon | (952)-913-0276 agordon@ou.edu |
| Tuesday Morning | 8-9am | James Cuellar | (281)-799-8097 jcuellar17@ou.edu |
| Tuesday Evening | 7-9pm | Nolan Meister | (616)-828-9450 nolan.meister@ou.edu |
| | | Elizabeth Leslie | (571)-488-0457 Elizabeth.F.Leslie@ou.edu |

| | | | |
|-------------------|--------------|-------------------|--|
| Wednesday Morning | 8-9am | Jay Keyse | (479)-857-2777 jkeyse@ou.edu |
| Wednesday Evening | 7-9pm | Isaiah Schick | (507)-429-5093 Isaiah.M.Schick-1@ou.edu |
| | | Matthew Gonzales | (512)-769-6244 matthew.s.gonzales-1@ou.edu |
| Thursday Morning | 8-9am | Victor Alvarez | (405)-795-8629 victoraalvarez21@ou.edu |
| Thursday Evening | 7-9pm | Bruce Pollock | (832)-285-6779 bruce.c.pollock-1@ou.edu |
| | | Joshua Shank | (816)-508-7831 joshua.l.schank-1@ou.edu |
| | | Emilie McReynolds | (405)-323-1885 emilie.mcreynolds@ou.edu |
| Friday Morning | 8-9am | James Cuellar | (281)-799-8097 jcuellar17@ou.edu |
| Friday Evening | 6:30-8:30 pm | Bradley Weber | (561)-704-3033 bradley.weber-1@ou.edu |
| | | Jack Maney | (405)-626-3811 jackmaney97@ou.edu |

Shift Summaries

Morning Shifts:

- Take attendance if needed
- StudiOU (Norman, OK) Forecast Podcast (instructions in forecast template)
- Update Baron graphics system forecasting the state highs for the current day (must have entered before 8:45 AM) ● OWL Website:
 - Statewide Forecast Discussion
 - Short-Term Forecast Discussion for Norman

Evening Shifts:

- TAKE ATTENDANCE

- Island 106.9 (Key West, FL) Forecast Podcast (instructions in forecast template); exception for Friday night
- Update Baron graphics system forecasting the state lows for the night/early morning (must have entered before 8:45 PM)
- OWL Website:
 - Statewide Forecast Discussion
 - Short-Term Forecast Discussion for Norman

Climate Shift:

- Same responsibilities as Evening Shifts
- Record Southern Regional Forecast Podcast Sunday night
- Publish Southern Regional Forecast Podcast Monday morning
 - Publish to OWL YouTube Account
 - Use YouTube link to post to OU Campus Forecast Facebook page and OWL Twitter account

NOTE: The OWL website is under development. Our development team, HOOT, has been working all summer, and is continuing to work throughout this semester to get the website fully operational. As aspects of the website continue to become operational, responsibilities will likely change for both morning and evening shifts. You will be notified if something changes throughout the year and check back with this document when necessary to see if shift responsibilities have been updated.

Shift Format Outline

NOTE: The OWL website is under development. Our development team, HOOT, has been working all summer, and is continuing to work throughout this semester to get the website fully operational. As aspects of the website continue to become operational, responsibilities will likely change for both morning and evening shifts. You will be notified if something changes throughout the year and check back with this document when necessary to see if shift responsibilities have been updated.

Shift Format:

- Teaching and Training Time:
 - This will be time when you will basically teach the members of your shift certain aspects of weather forecasting. If you don't have ideas for that particular shift, there will be a library of presentations on the OWL Google Drive that will be placed into the folder named "Shift Leader Help Folder." You can utilize any tools for this portion of the shift; it does not have to

be a PowerPoint presentation. Usually last around half an hour to and an hour depending on the content of the lesson and the interaction you receive from your shift attendees.

- This can be simple or complex. Before planning a certain topic to cover and how in-depth (or not in-depth) you're going into said topic, make sure you know, understand, and listen to what your attendees already know and what they want to learn.
- Forecasting:
 - It is recommended to forecast as a group to create both the statewide and short-term forecast discussions.
 - It is recommended (until point forecasts can be made on the OWL website) to designate a city to a person or group of people to forecast for the Baron graphics system.
 - Get shift attendees to participate in both the social media post and the Key West podcast.
- Talk do your shift members and see what they want to cover and learn throughout the year. Also utilize ongoing weather events across the country and across the world to create lessons for your shift members.

*****TAKE ATTENDANCE*****

Attendance is operational on the website, just check with the Director of Development to make sure the database has been setup for the new school year. This includes attendance for general meetings. Please, please..., PLEASE take attendance as this will determine who and who is not a voting member of the Oklahoma Weather Lab.

Statewide Forecast Discussion Example:

Issued: 6:35 PM CDT (2335 Z), Wednesday, July 10, 2019

...SYNOPSIS...

Across Oklahoma, highs range from the upper 80's to the upper 90's with some areas in the southwest part of Oklahoma breaking above 100 F. An upper-level short wave is expect to push a cold front across Oklahoma by tomorrow, giving some relief from the hot weather.

...SHORT TERM...

Temperatures in eastern Oklahoma are already dropping into the mid 70's while temperatures in central and western Oklahoma are still in the upper 80's and low 90's.

This rapid cooling is from the cold front starting to push through Oklahoma and causing a line of storms to develop. The cold front is expected to move southward tonight.

...LONG TERM...

The long-range forecast is hard to pin down due to the uncertainty of the track of a tropical disturbance. The track of the system will determine Oklahoma's rain chances especially for eastern Oklahoma as a western track would lead to a higher chance of rain and cooler temperatures.

Forecaster: SCHANK

Short-Term Forecast Discussion Example:

Issued: 6:46 PM CDT (2350 Z), Wednesday, July 10, 2019

...CURRENT CONDITIONS...

Temperatures across Oklahoma vary as isolated thunderstorms in eastern Oklahoma have cool the air temperature into the mid 70's to lower 80's. Areas without rain are still in the upper 80's to low 90's.

...VALID THROUGH 12Z...

The chance of thunderstorms will continue for western Oklahoma. These chances will remain low overnight.

The lows for tonight are expected to range from about 67 F to 80 F with winds starting out in the east from 1-5 mph and gusting to about 10 mph. The winds will shift overnight to the north and strengthen to be between 5-10mph with gusts up to 15mph. Sky cover is expected to range from partly cloudy to mostly cloudy, depending on the development of precipitation.

...HAZARDOUS WEATHER OUTLOOK...

Overnight, no hazardous weather is expected.

Forecasters: POLLOCK

Product Guide

Observational Data (current/ongoing):

- <http://mesonet.org/> (Oklahoma Mesonet)

- <https://www.wpc.ncep.noaa.gov/html/sfcloop/currobs.html> (National Surface Observations)
- <https://www.spc.noaa.gov/exper/mesoanalysis/new/> (SPC Mesoanalysis) ● Use RadarScope App for radar data.
- <https://www.tropicaltidbits.com/sat/> OR <https://weather.cod.edu/satrad/> (Satellite)

Short-Range Forecasting (1-2 days):

- HRRR
- WRFs/CAMs
- NAM3km
- RAP
- SREF

Mid-Range Forecasting (3-6 days):

- NAM3km
- NAM
- Euro (ECMWF)
- GFS

Long-Range Forecasting (past 6 days):

- Euro (ECMWF)
- GFS
- CFS (Weekly & Monthly)

Websites

- <https://www.pivotalweather.com/model.php>
- <https://weather.cod.edu/forecast/>
- <https://www.tropicaltidbits.com/analysis/models/>
- <https://www.spc.noaa.gov/exper/sref/srefplumes/>
- <https://weather.us/>