



Collaboration between the University at Albany and WFO Albany



WFO ALY – student volunteer program. We host 3 to 6 students per semester. Job shadowing, research projects, field trips, career advice.

ATM 480
Forecasting and National Weather Service Operations
 Spring 2019 – Class # 9470 – Mon, 4:25-5:20 PM, L102 CESTM (251 Fuller Road)
 Instructors: Mike Evans, Kevin Lipton, and Ross Lazear
 michael.evans@noaa.gov; kevin.lipton@noaa.gov; rlazear@albany.edu

Topics covered:

- Course introduction, syllabus, grading (RL - Mon Jan 28)
- Mesoanalysis + Terrain Effects (TAW/MSE - Mon Feb 4)
- Radar Interrogation, DUAL-POL Apps, and Severe WX (BJF/TAW - Mon Feb 11)
- NYS Mesonet as a now-casting tool (Nick Bassill) - Mon Feb 18 (FEDERAL HOLIDAY)
- Winter Weather/Ensembles + anomalies (NAS - Mon Feb 25)
- Lake Effect Snow Forecasting/GIS Apps in NWS (JPV - Mon Mar 4)
- Aviation Forecasting (KSL - Mon Mar 11)
- GOES16 Apps - (Jenn V - Mon Mar 25)
- Hydrology (BEW - Mon Apr 1)
- Intro to NWS + Ground Truth/Observations and Data Quality (Mon Apr 8)
- Extreme Local Events – potential for societal disruption (SND - Mon Apr 15)
- IDSS/Crisis Media (BGM - Mon Apr 22)
- Research to Operations and CSTAR (Kristen Corbosiero / Brian Tang) - Mon Apr 29
- NWS Careers/Getting into NWS - (ROK / JC - Mon May 6)

Objectives:

The goals of this course are to cover many of the roles of operational meteorologists in the National Weather Service, and teach some forecasting methods and philosophy as well. The course will feature different instructors each week, each with expertise relevant to operational meteorology.

The atmospheric science research center provides opportunities for collaborative research and interaction with students.

Atmosphere 480 began in the spring of 2019. Staff give lectures on operational topics. U Albany professors also give lectures attended by our staff



Collaboration between the University at Albany and WFO Albany



Northeast Regional Operational Workshop XIX November 7-8, 2018
Albany, New York

Sponsored by:
National Weather Service
SUNY-University at Albany's Department of Atmospheric and Environmental Science

Albany CSTAR

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ONGOING PROJECTS

- Forecast and model diagnostics for severe convective weather events in complex terrain
Graduate student: William Flaminio
PI and co-PIs: Brian Tang, Lance Board, and Kristen Corbosco
NWS focal points: Thomas Heasle (ALY), Michael Evans (ALY), and Matthew Kneher (RT)
- High-resolution forecasts of lake-effect snowstorms: model performance, physics sensitivities, and synoptic predictability
Graduate student: Meesey Bartolin
PI and co-PIs: Justin Mohler, Daniel Keyser, and Quan Tom
NWS focal points: Joseph Vitari (ALY) and David Zupf (BLU)
- Applying forecast track and intensity diagnostics to high-impact Northeast winter storms
Graduate student: Tomer Burg
PI and co-PIs: Andrew Lang, Quan Tom, and Kristen Corbosco
NWS focal points: Neil Stueff (ALY), Joseph Delicourt (BDL), and Justin Arnett (DRI)

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MESOSCALE SNOWBAND CONCEPTUAL DIAGRAMS
Conceptual diagrams describing the motion of mesoscale snow bands in context of the synoptic scale pattern, from James Kropf's M.S. thesis.

WFO ALY continues a partnership with the University at Albany on developing and executing CSTAR grants for research to operations. CSTAR VII is next!

Our annual NROW workshop presents operationally-oriented research to a wide audience, much of which stems from our collaborations with U Albany

Your Current Weather and Forecast

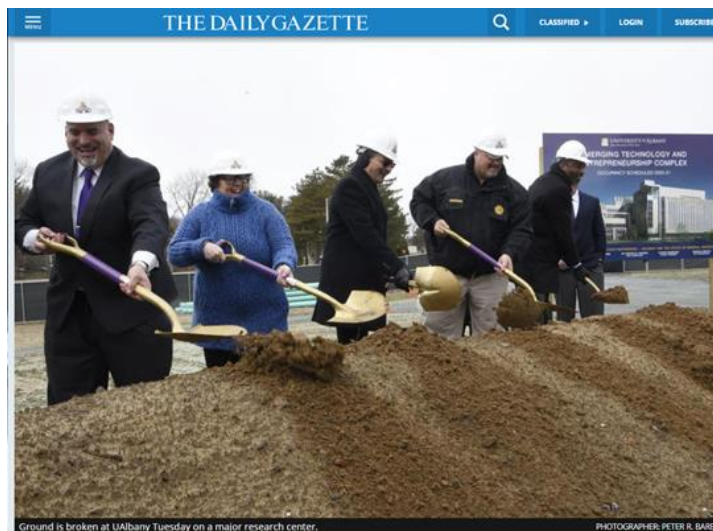
Voorheesville

11°F
Wind Chill 2°F
Jan 31, 2019 4:30 PM EST

Elevation: 378 feet
Relative Humidity: 31%
Dewpoint: -14°F
Wind: SW at 5 mph
Gust: 8 mph
Station Pressure: 1,010 mb
Sea-Level Pressure: 1,025 mb
Solar Radiation: 20 W/m²
Snow Depth: 0"

1 day: 0.00"
3 days: 0.33"
7 days: 0.43"

2 hr: 32°F 0.13 m/m²
10 hr: 33°F 0.24 m/m²
20 hr: 34°F 0.17 m/m²



The NY meso-net has resulted from a collaborative effort involving the State of New York, U Albany and the National Weather Service.

The future – Our partnership will expand when we move into a new building with the atmospheric science department (2020)?