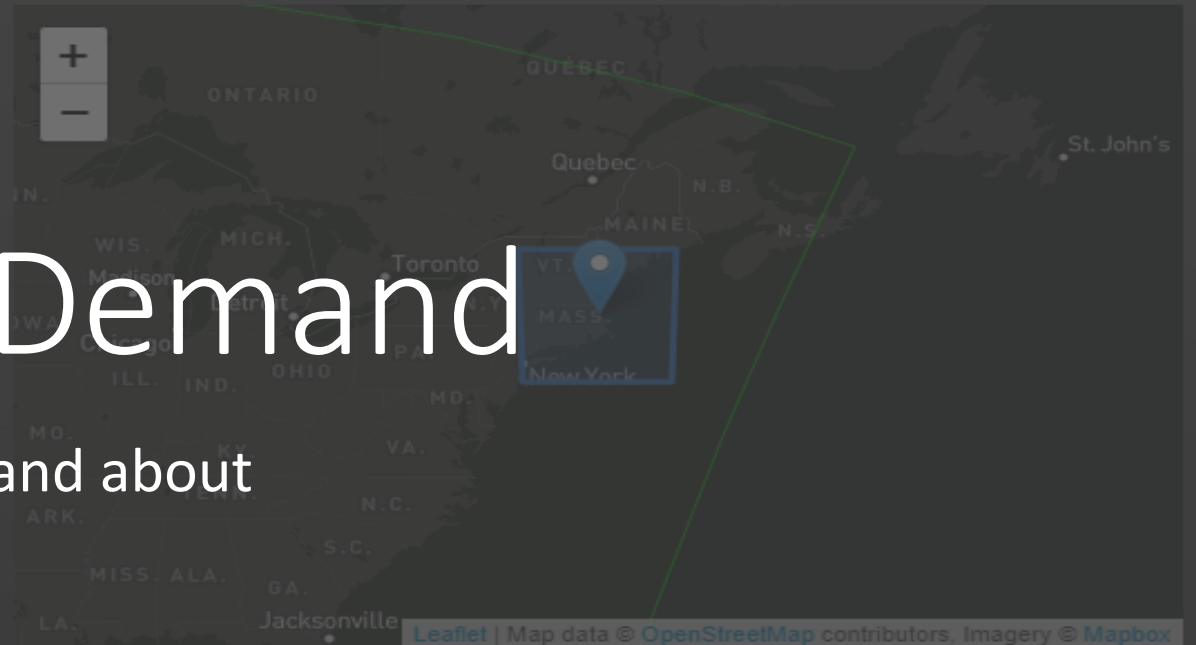


Use form below to run custom on-demand WRF model run. NetCDF outputs will be provided.

Model Initialization: <i>17z 1/27</i>	HRRR ▾
Forecast Duration (hrs):	3
Forecast Interval:	30mi ▾
Horizontal resolution (km):	10
Gridpoints (X/East-West):	500
Gridpoints (Y/North-South):	500
Cost / Runtime:	\$4 USD 36mins

Show advanced options | [Review namelist](#)

Click on map to move domain center. Change # of gridpoints and resolution above to alter domain bounds. Domain must stay fully inside HRRR bounding box.



WRF On-Demand

Motivation and about

Manual domain centroid

Use historical init dataset

Omit UPP GRIB2 files (NetCDF only, no viewer)

I agree to the Terms and Conditions.

Submit NetCDF-only forecast model run

WRF On-Demand

Why?

- Access to HPC systems
- Cluster management and software installation
- HPC-specific skillsets
- WRF has a steep learning curve
 - Infinite number of ways to break it
 - Flexibility can be overwhelming when starting

WRF On-Demand

- Web-based interface for setting up and running AceCAST simulations
 - Minimal set of options to simplify simulation parameter selection for the user
 - Interactive domain selection
 - Protects the user from doing things that would break WRF
 - Automatically determines GPU requirements
- Uses cloud-based compute and storage
 - No need for your own HPC!
 - Automated HPC cluster startup/shutdown
- AceCAST Modeling Framework (AMF)
 - Initialization dataset download
 - WPS preprocessing
 - AceCAST
 - UPP post-processing (optional)
 - Uploads output data to persistent cloud storage
- Visualization/Analysis
 - In-browser visualization tools
 - Direct access to output files for custom visualization/analysis