

## **Weather Study – Attachment 1**

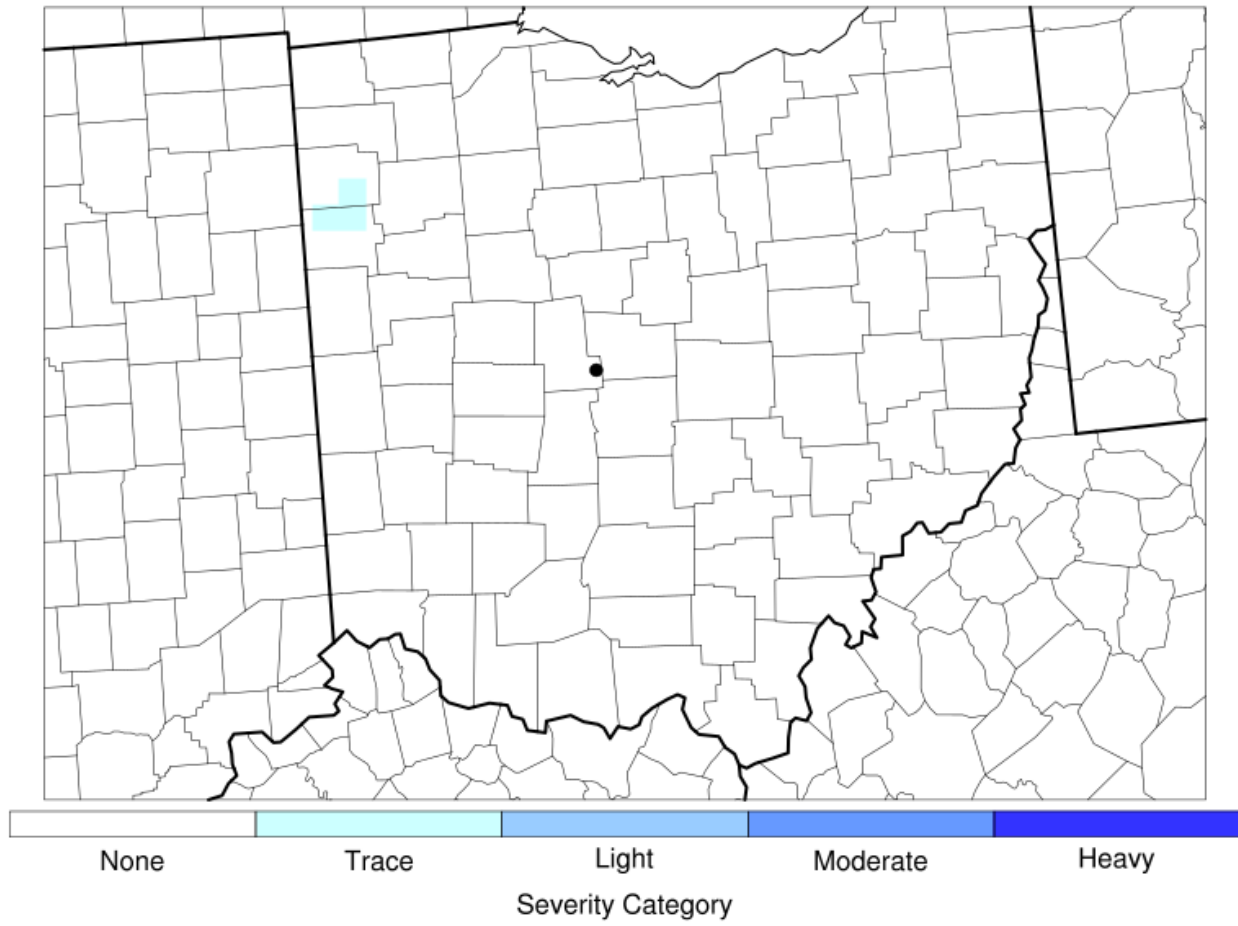
Images presenting output from the Current Icing Potential and Forecast Icing Potential products valid for 1700 and 1800 EDT for between 1,000 and 5,000 feet for the accident region.

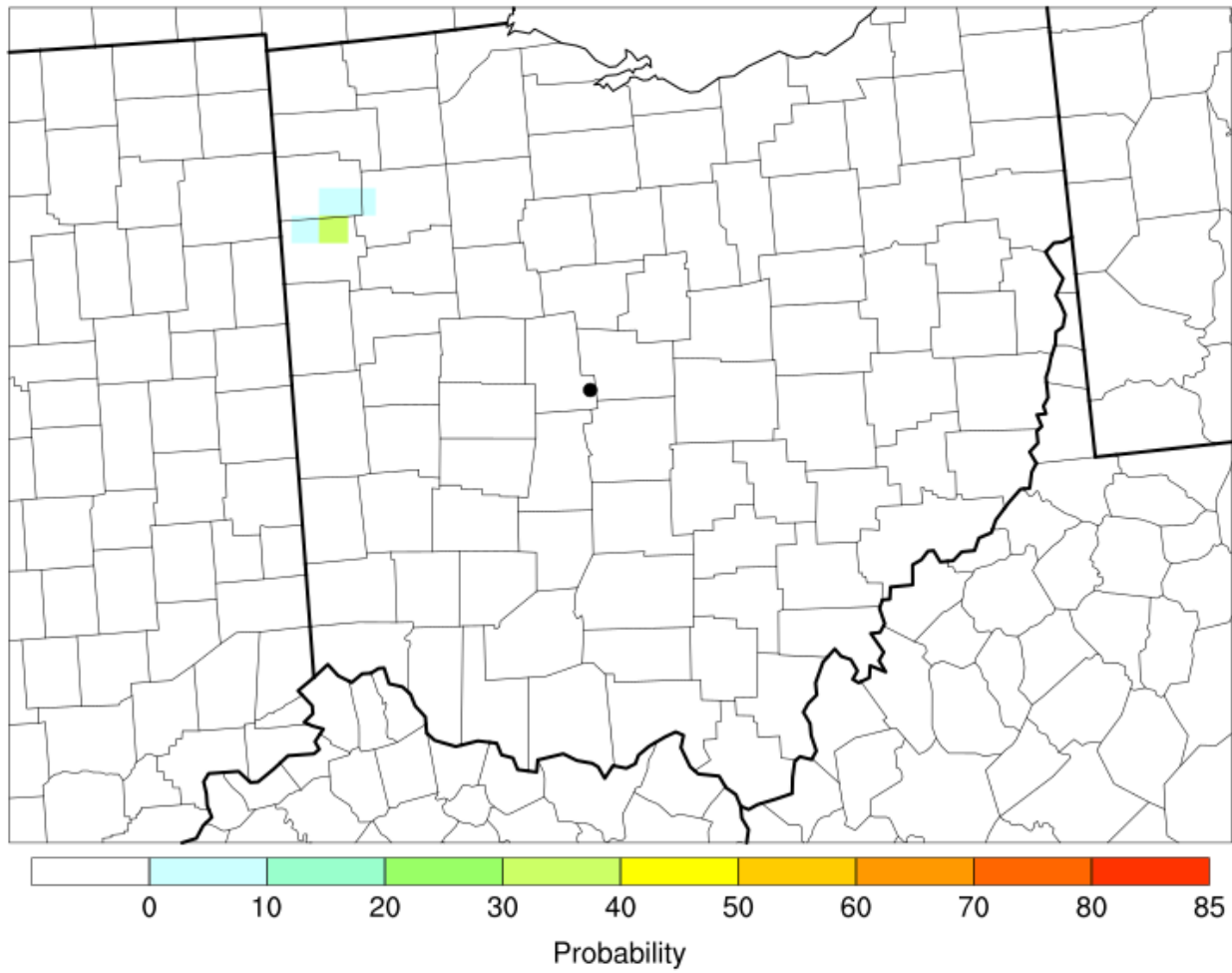
# **METEOROLOGY**

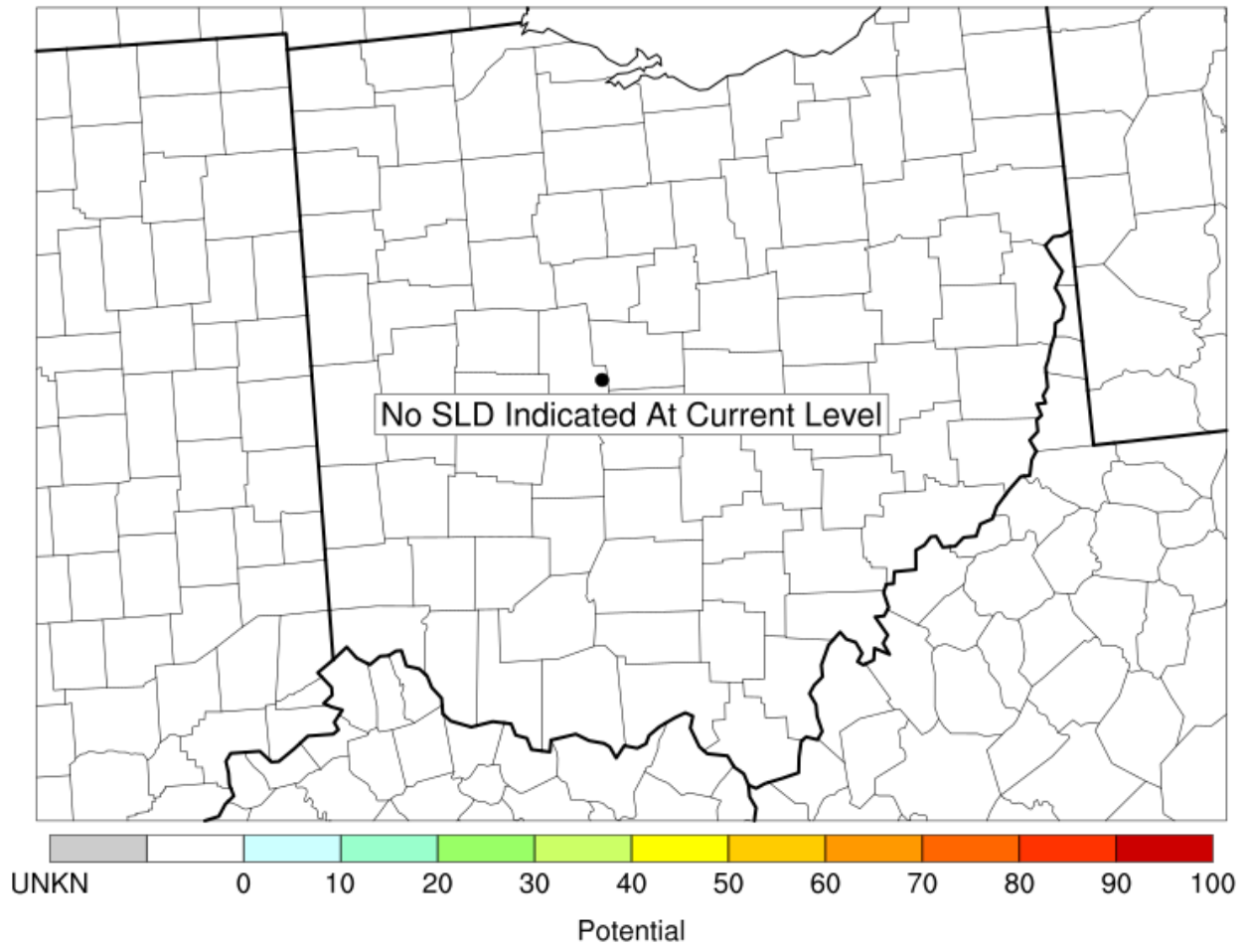
CEN19FA100

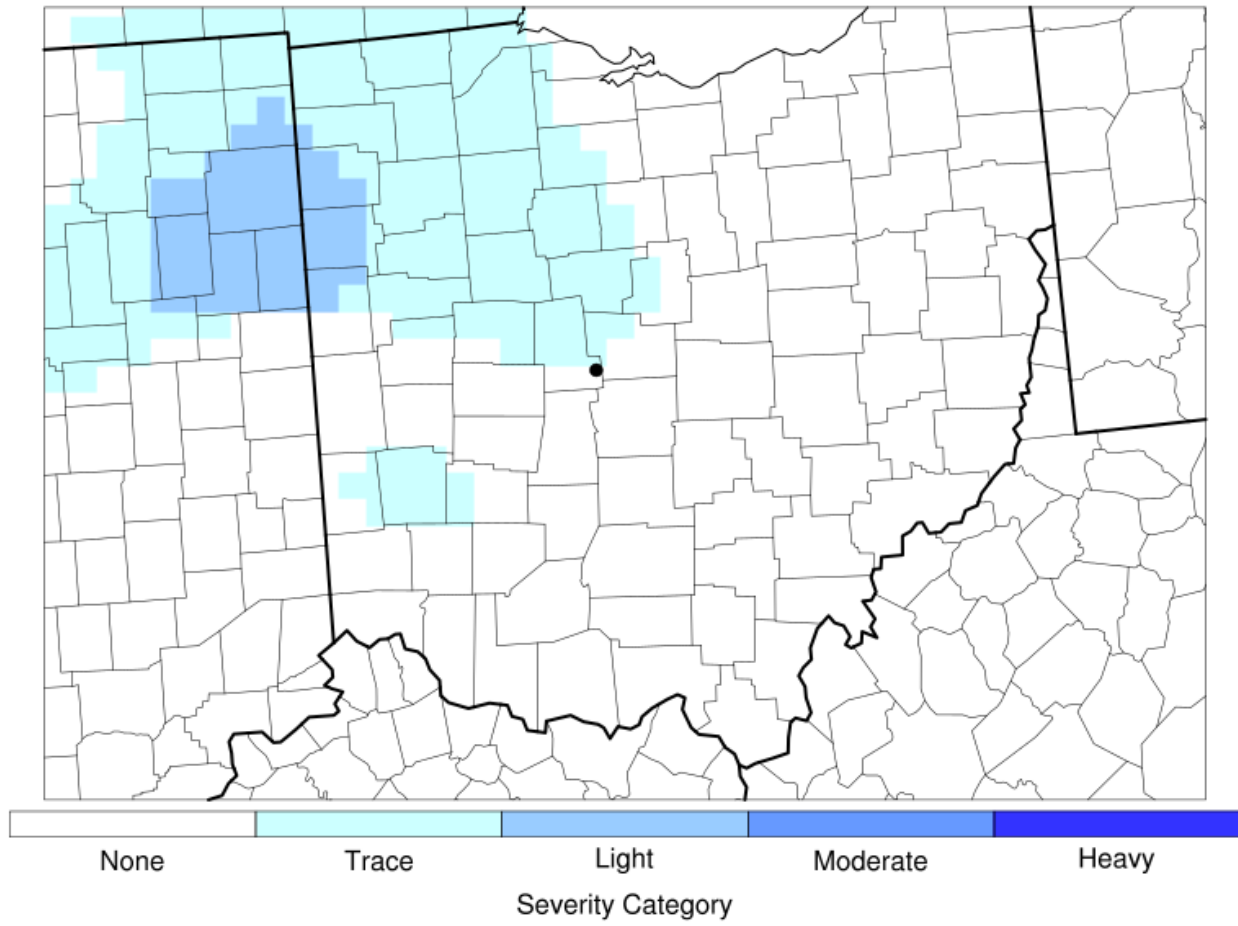
*Submitted by: Mike Richards  
NTSB, AS-30*

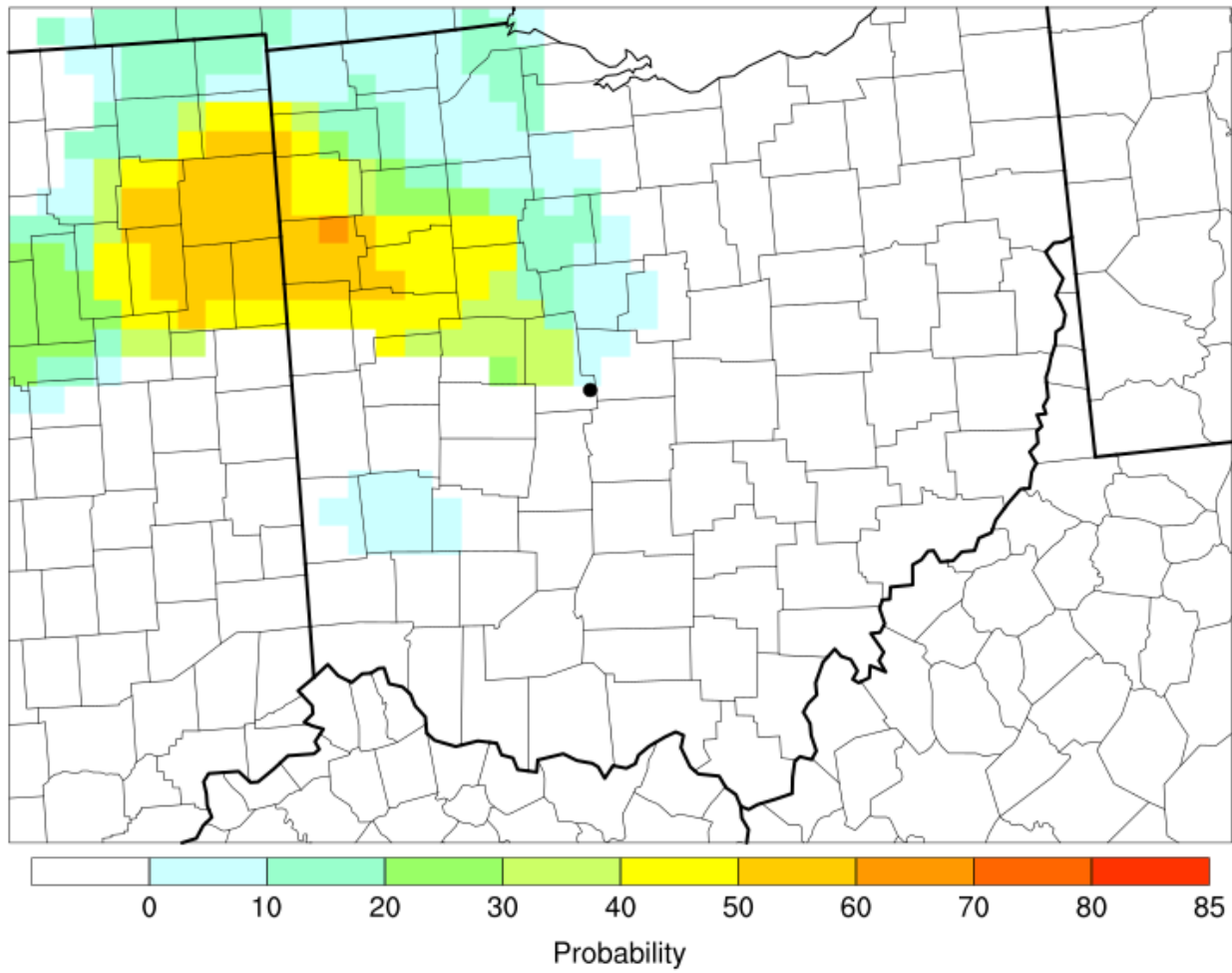
## Current Icing Potential





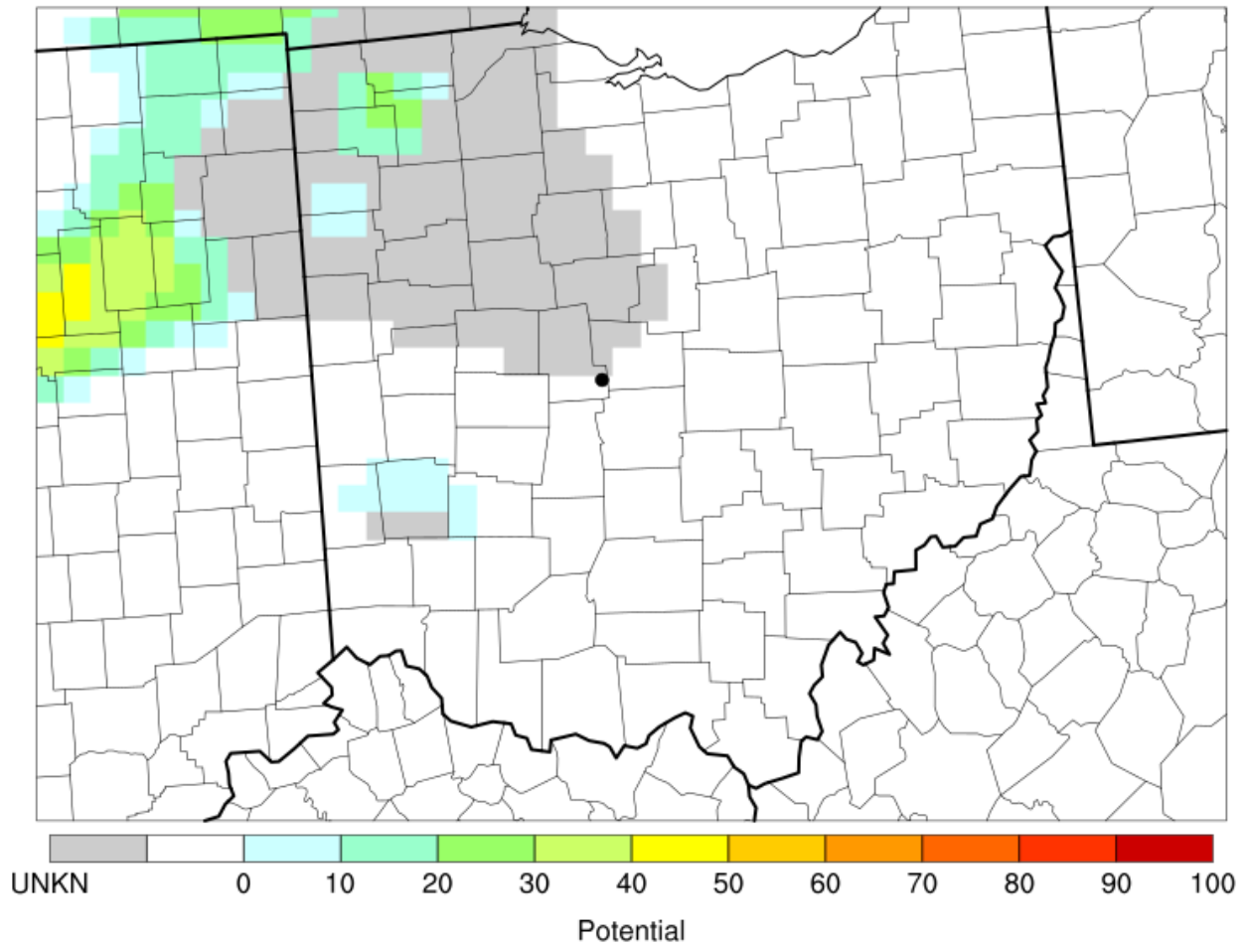




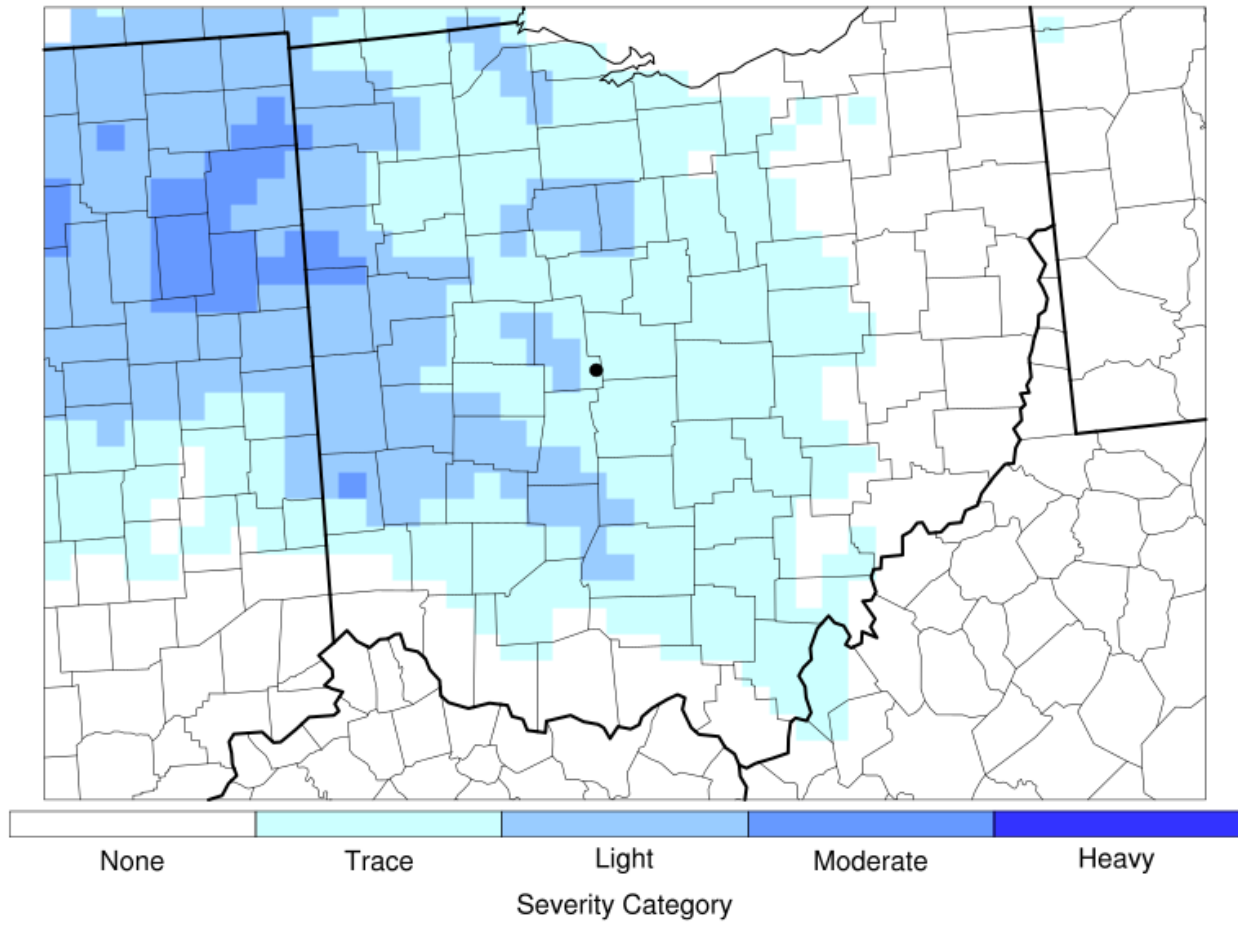


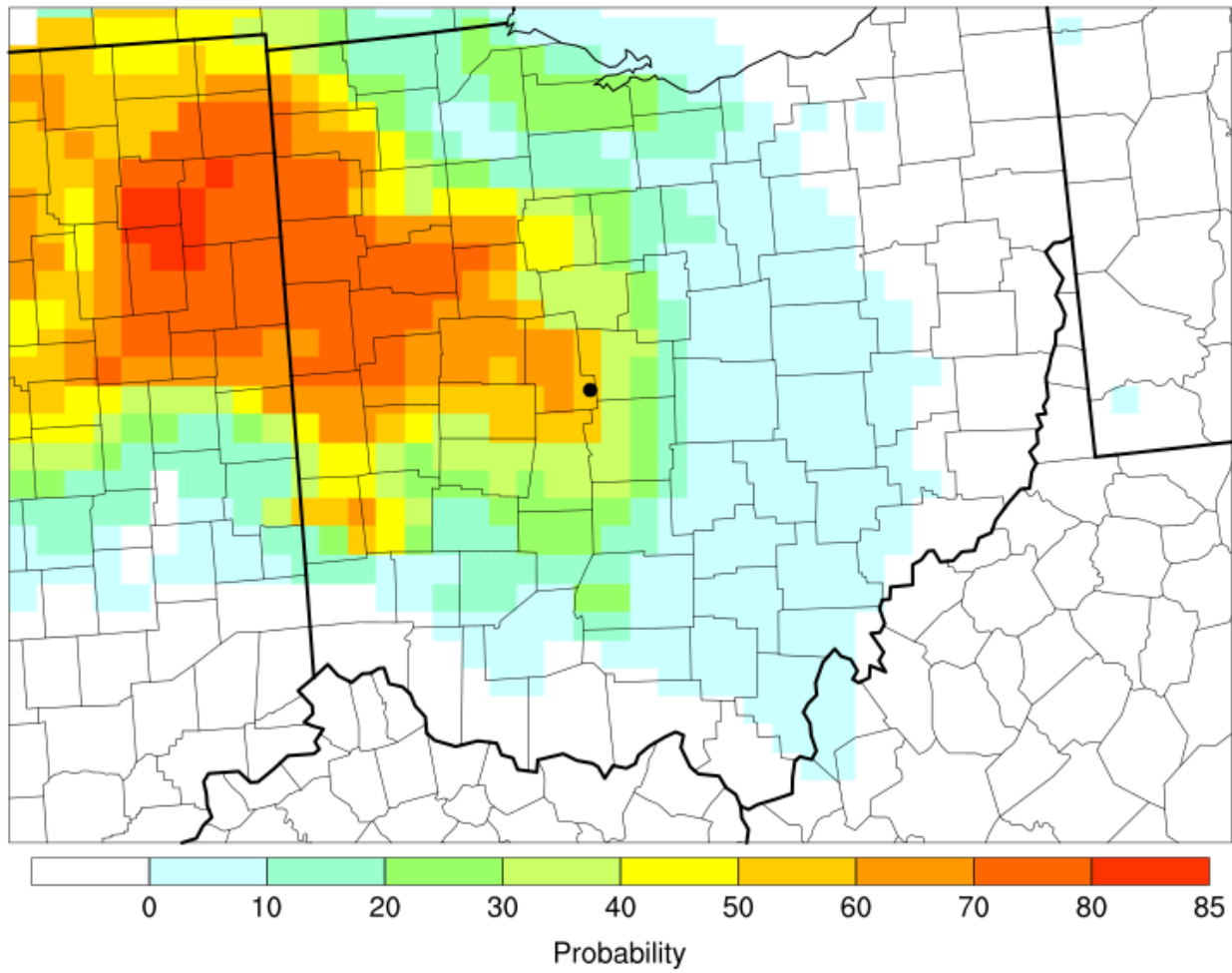
SLD POTENTIAL at FL 020

3/17/2019 2108 UTC



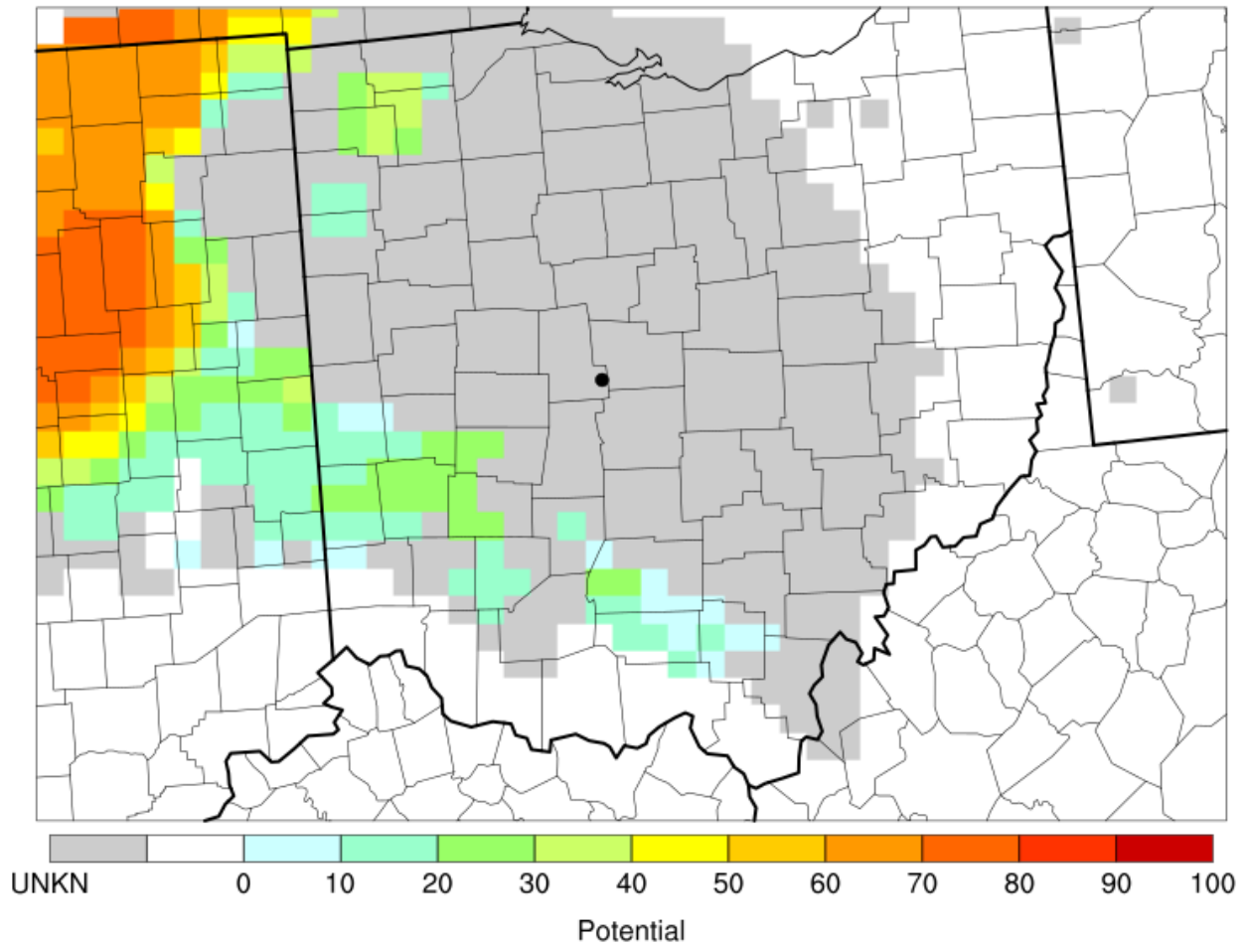


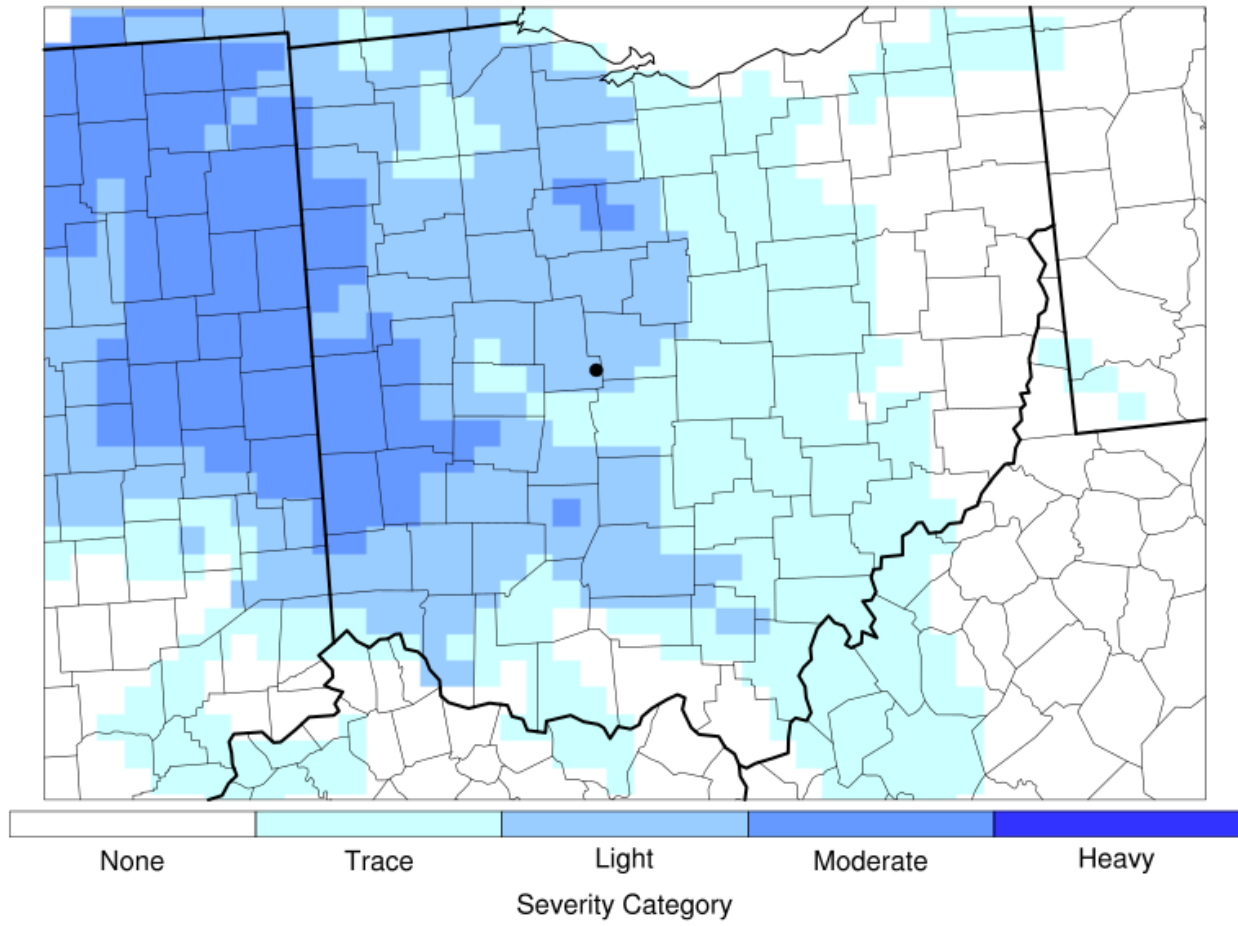


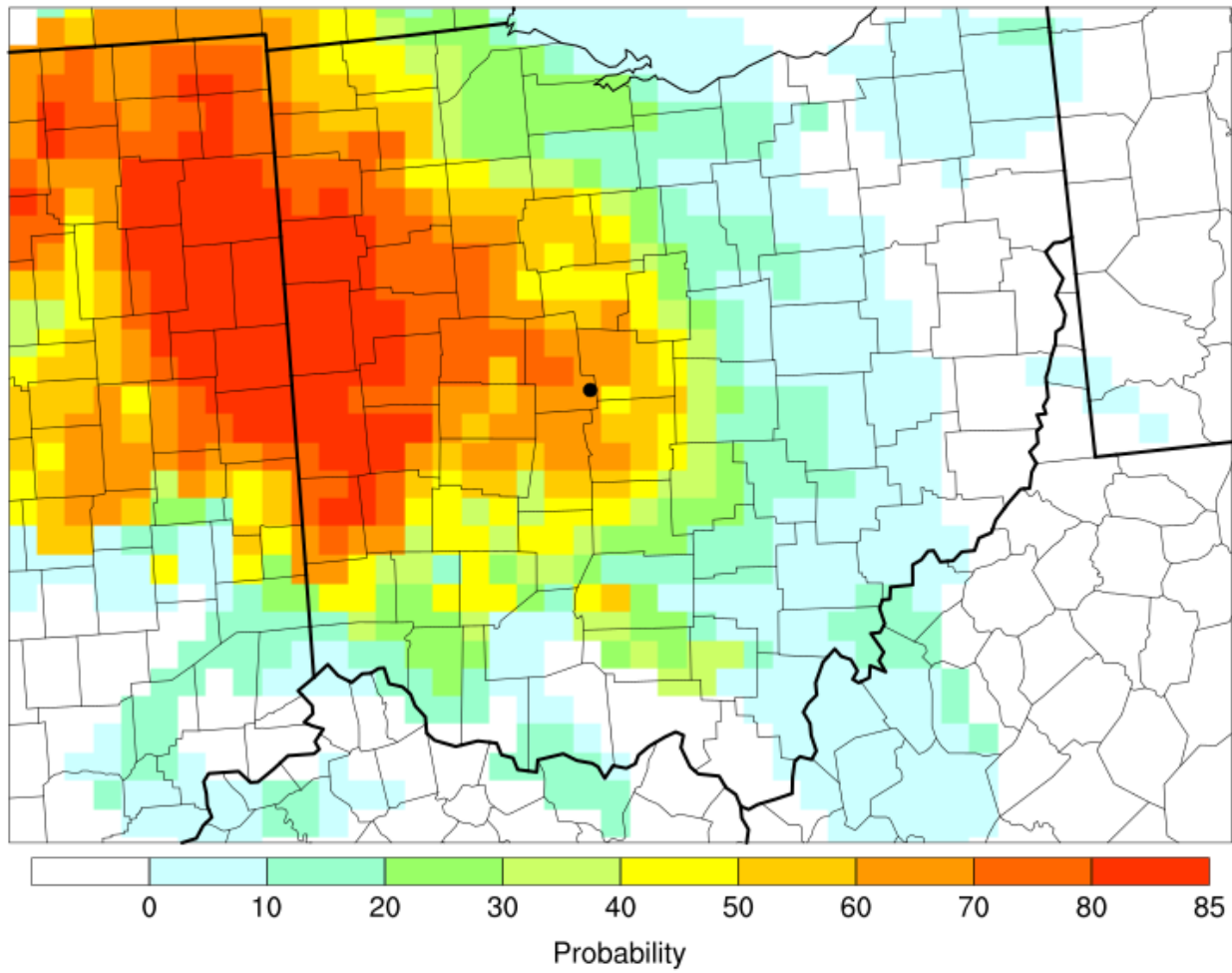


SLD POTENTIAL at FL 030

3/17/2019 2108 UTC

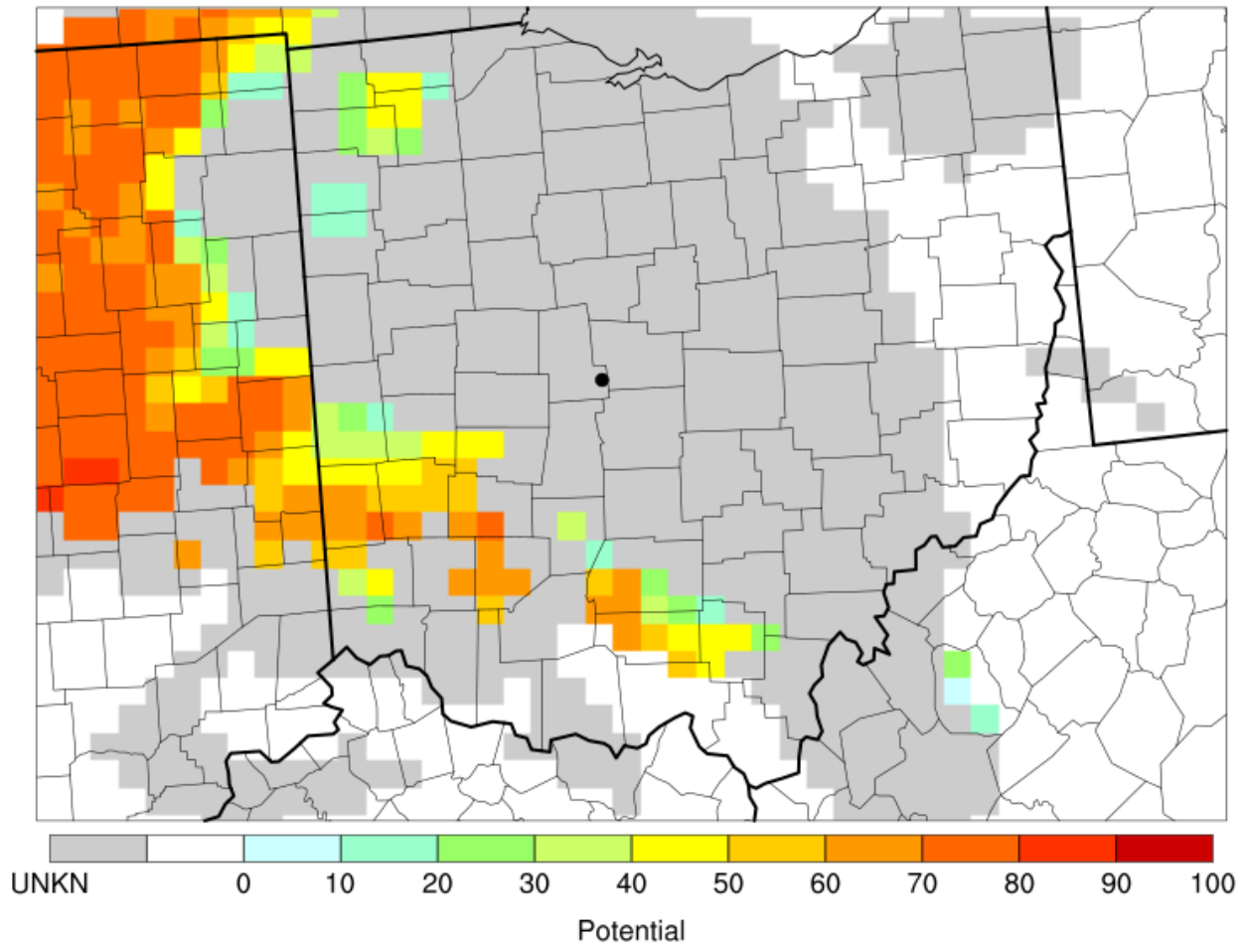


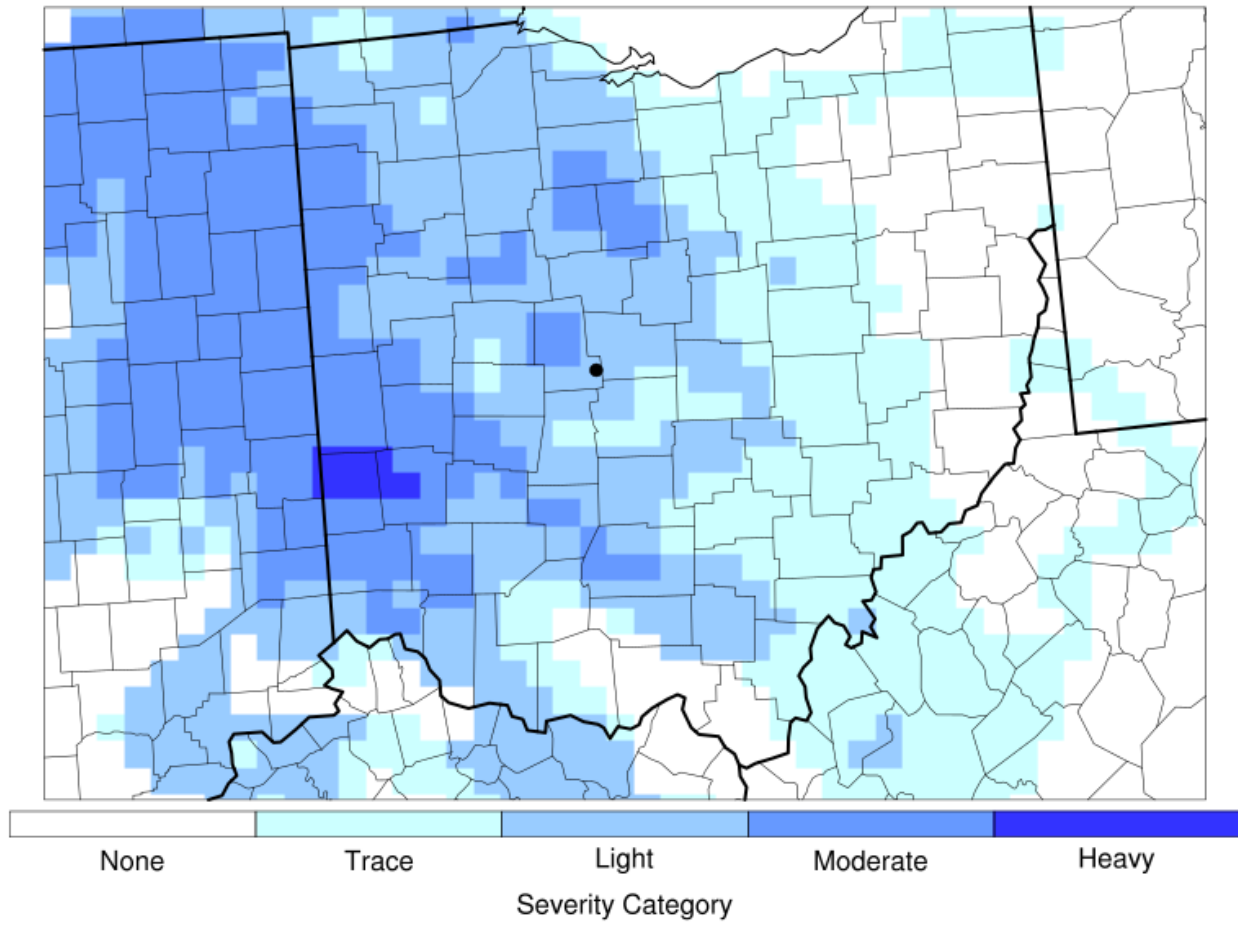


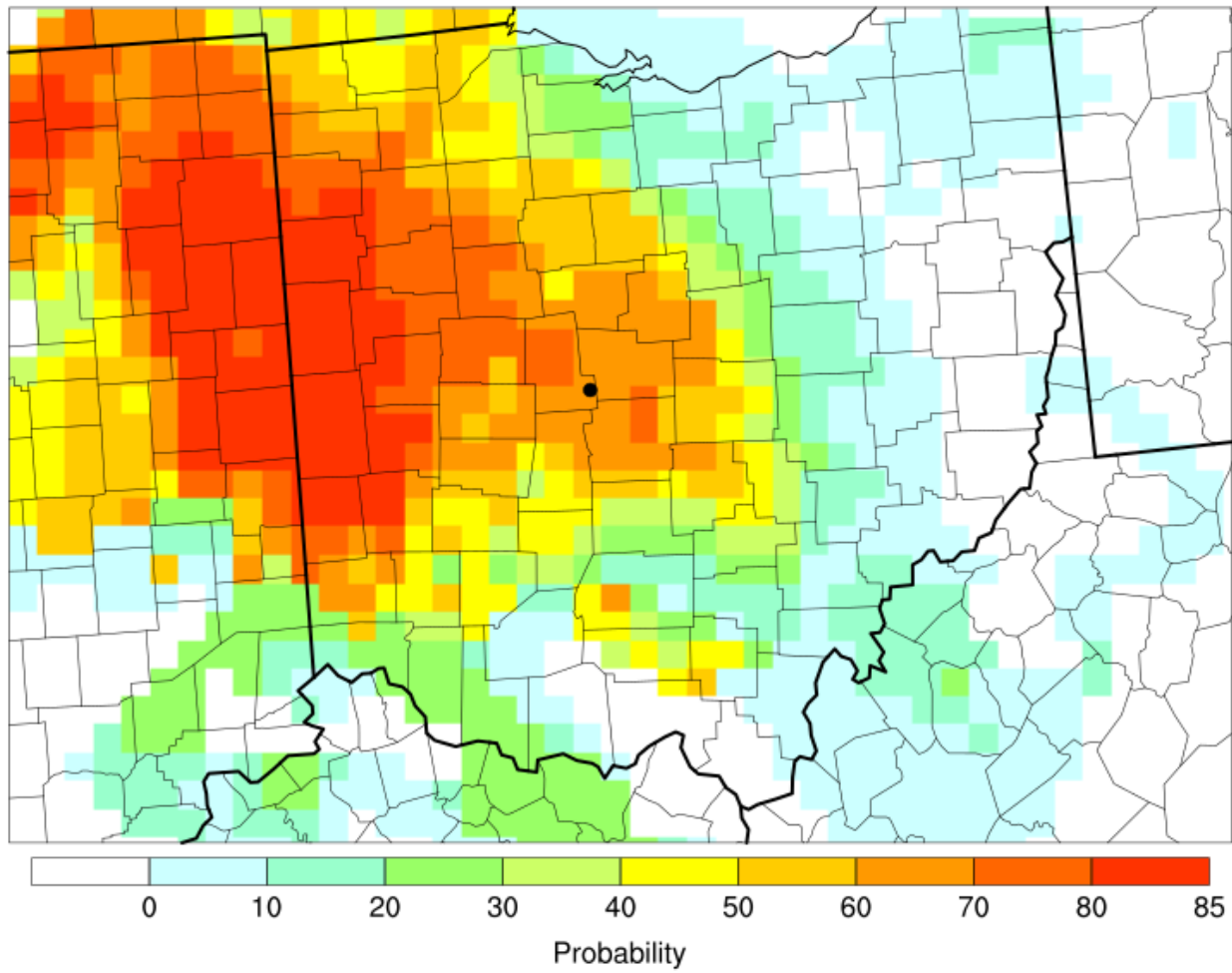


SLD POTENTIAL at FL 040

3/17/2019 2108 UTC



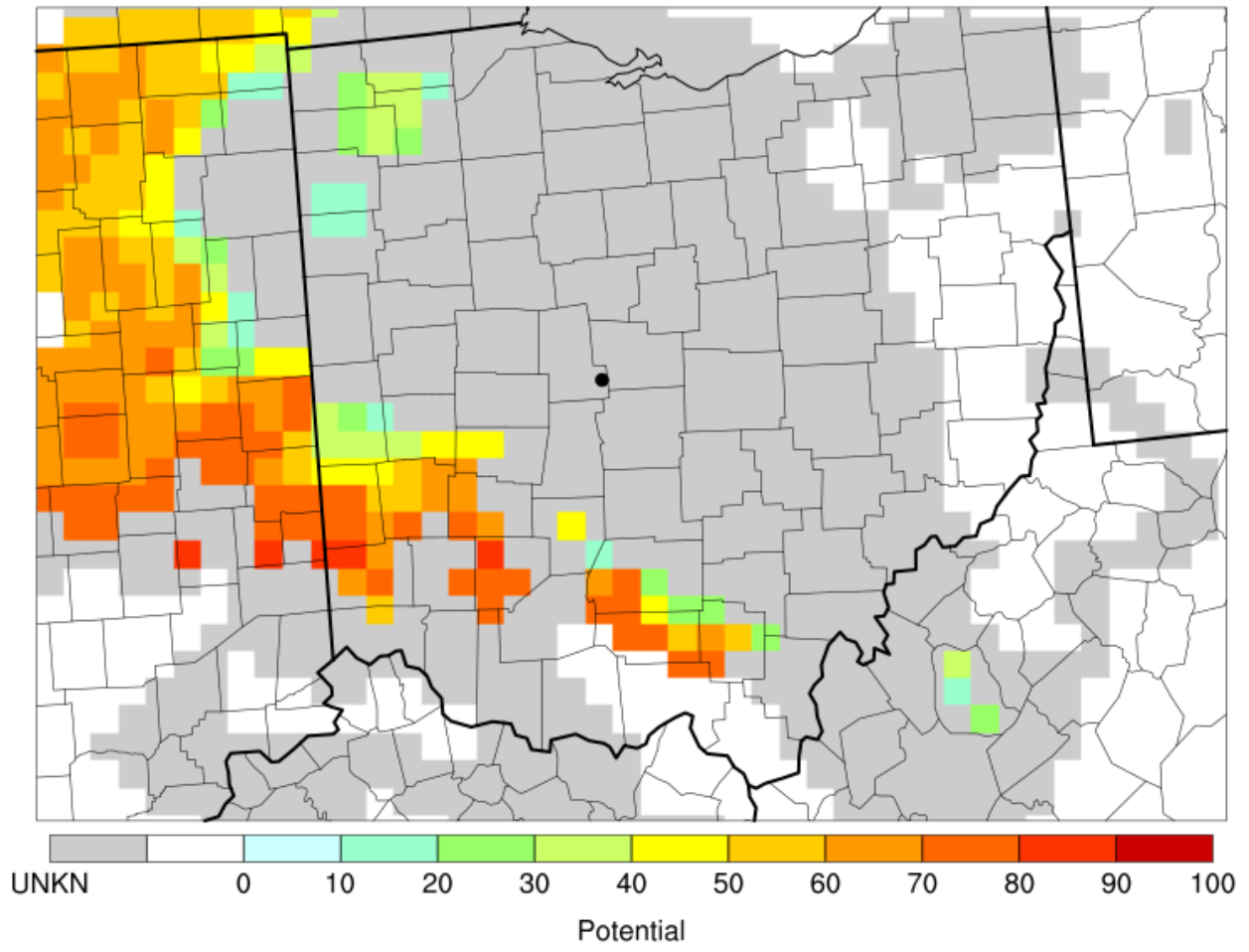


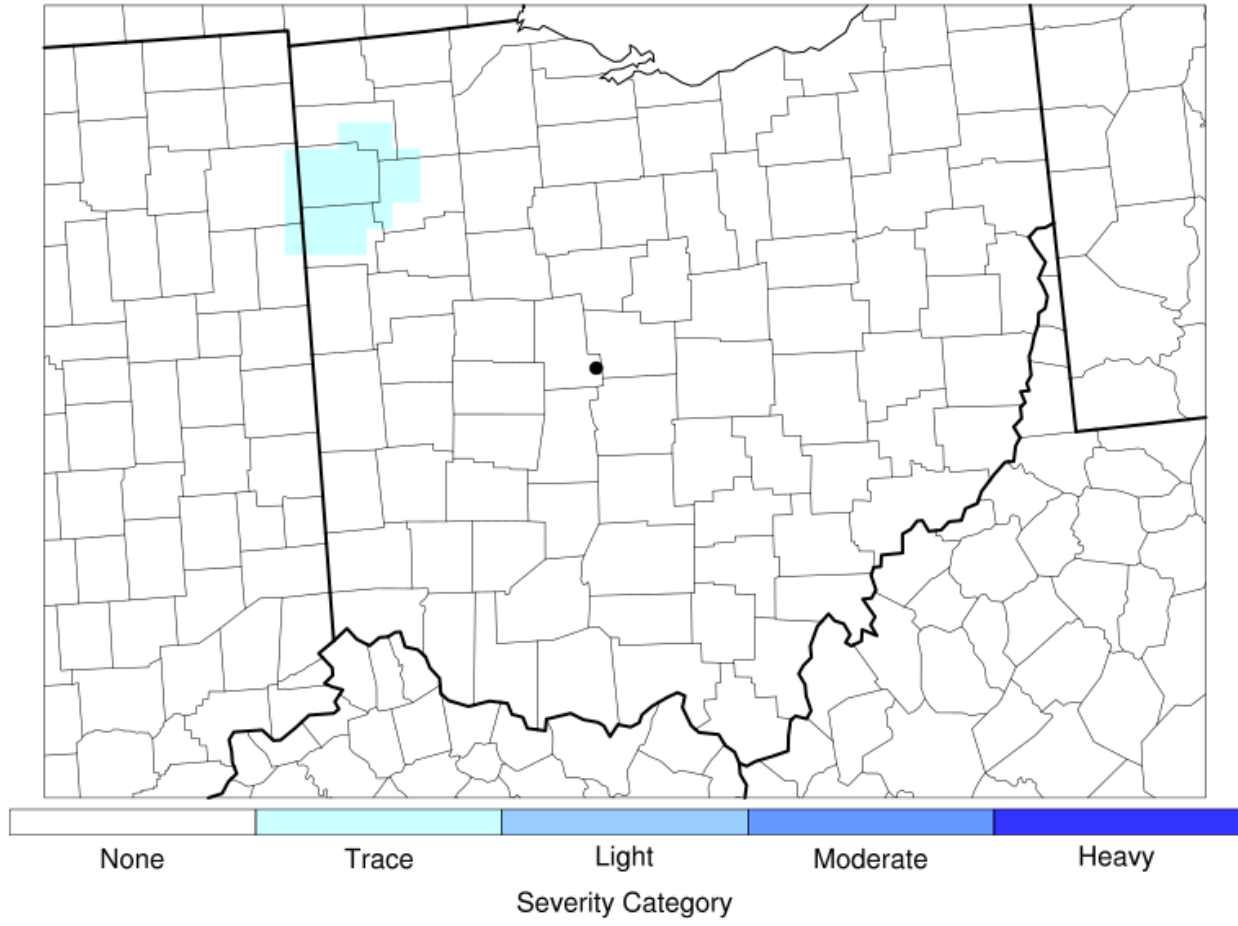


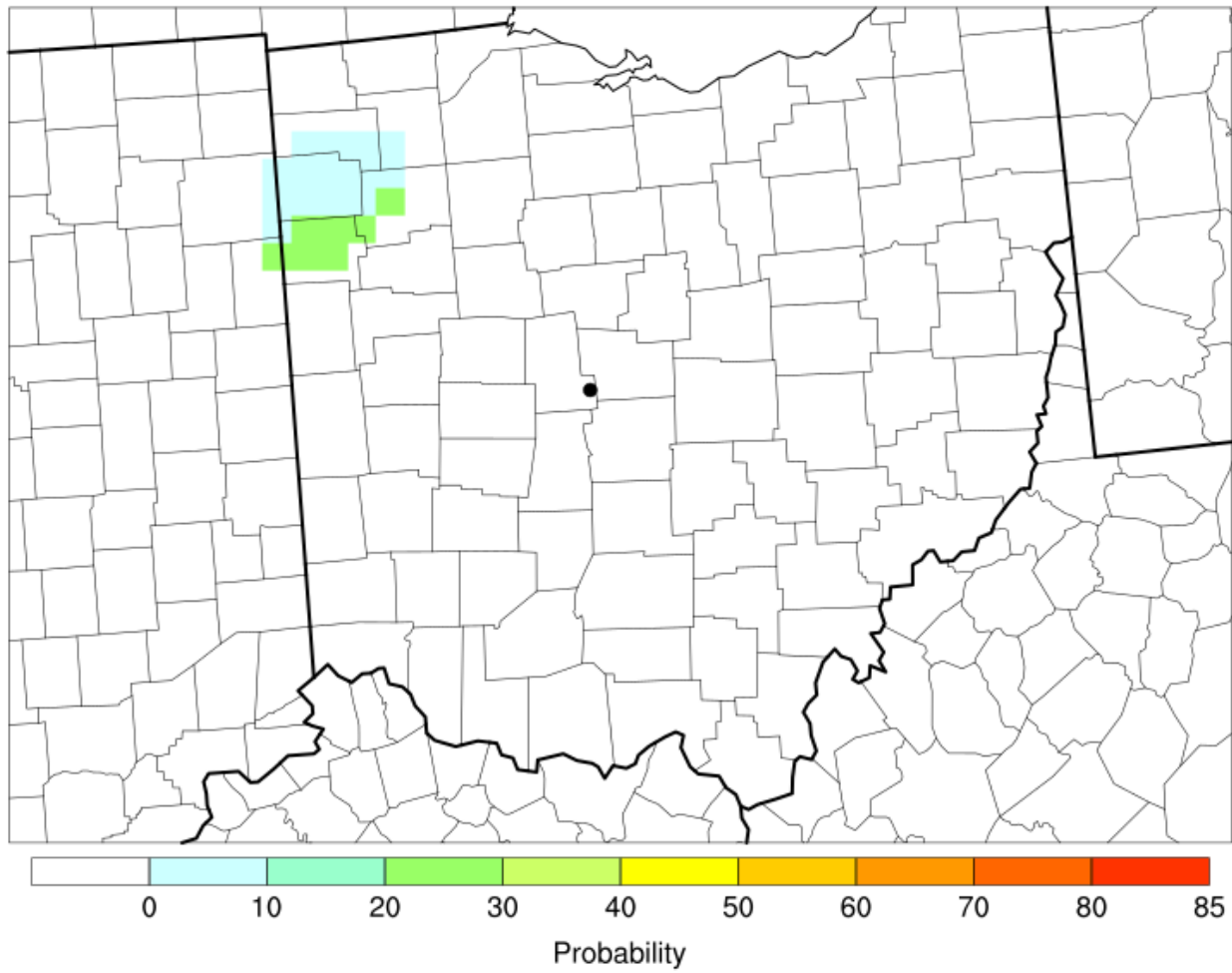


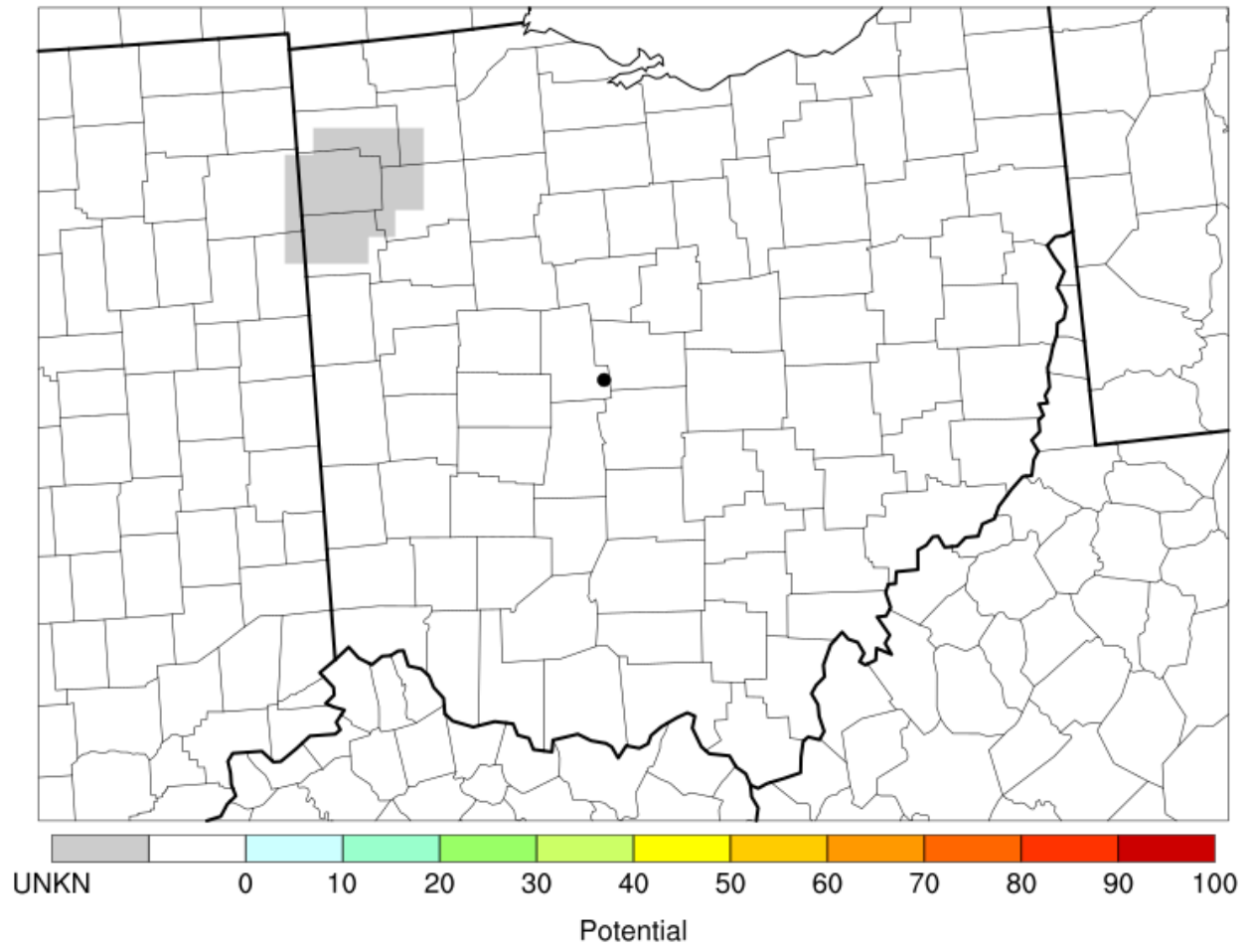
SLD POTENTIAL at FL 050

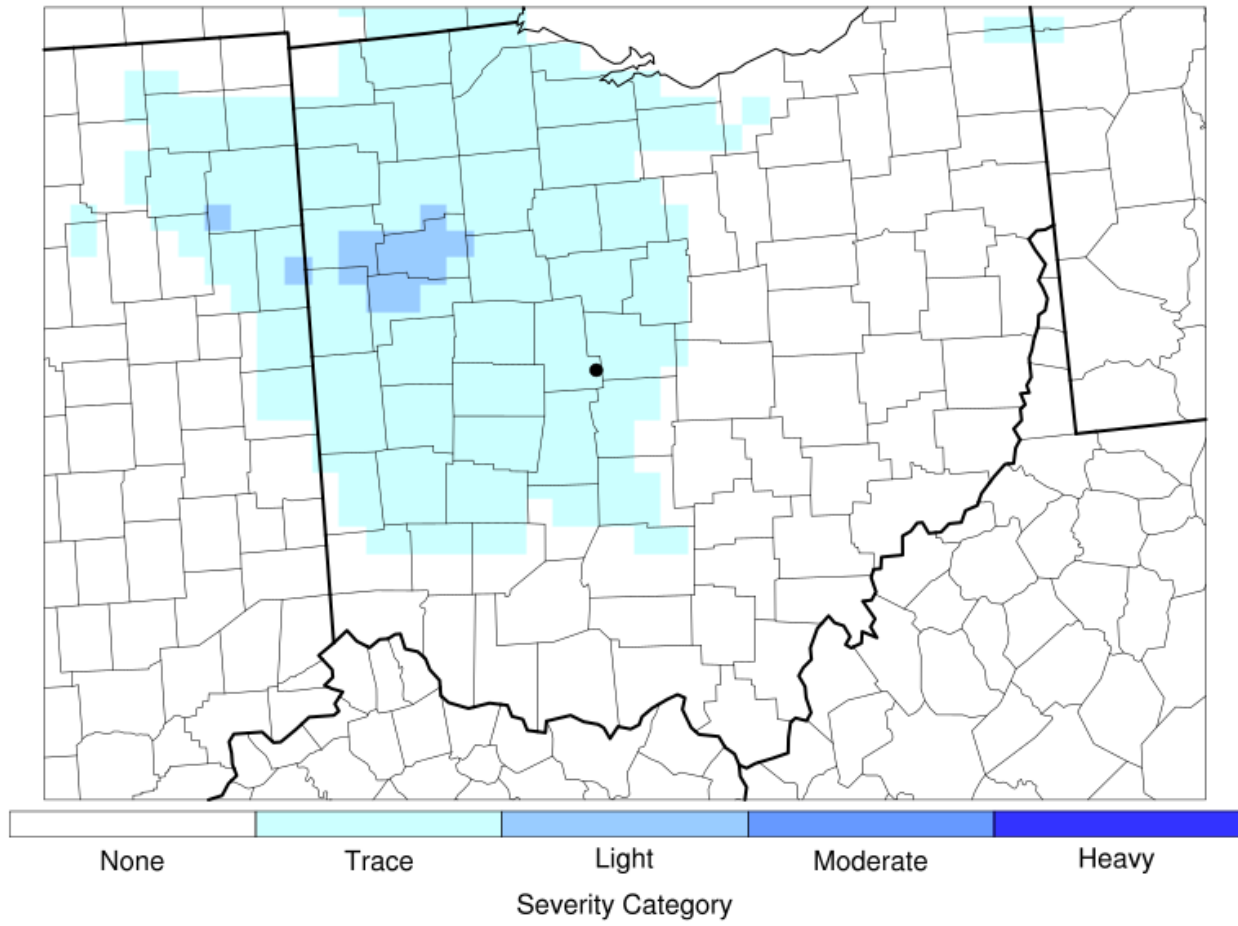
3/17/2019 2108 UTC

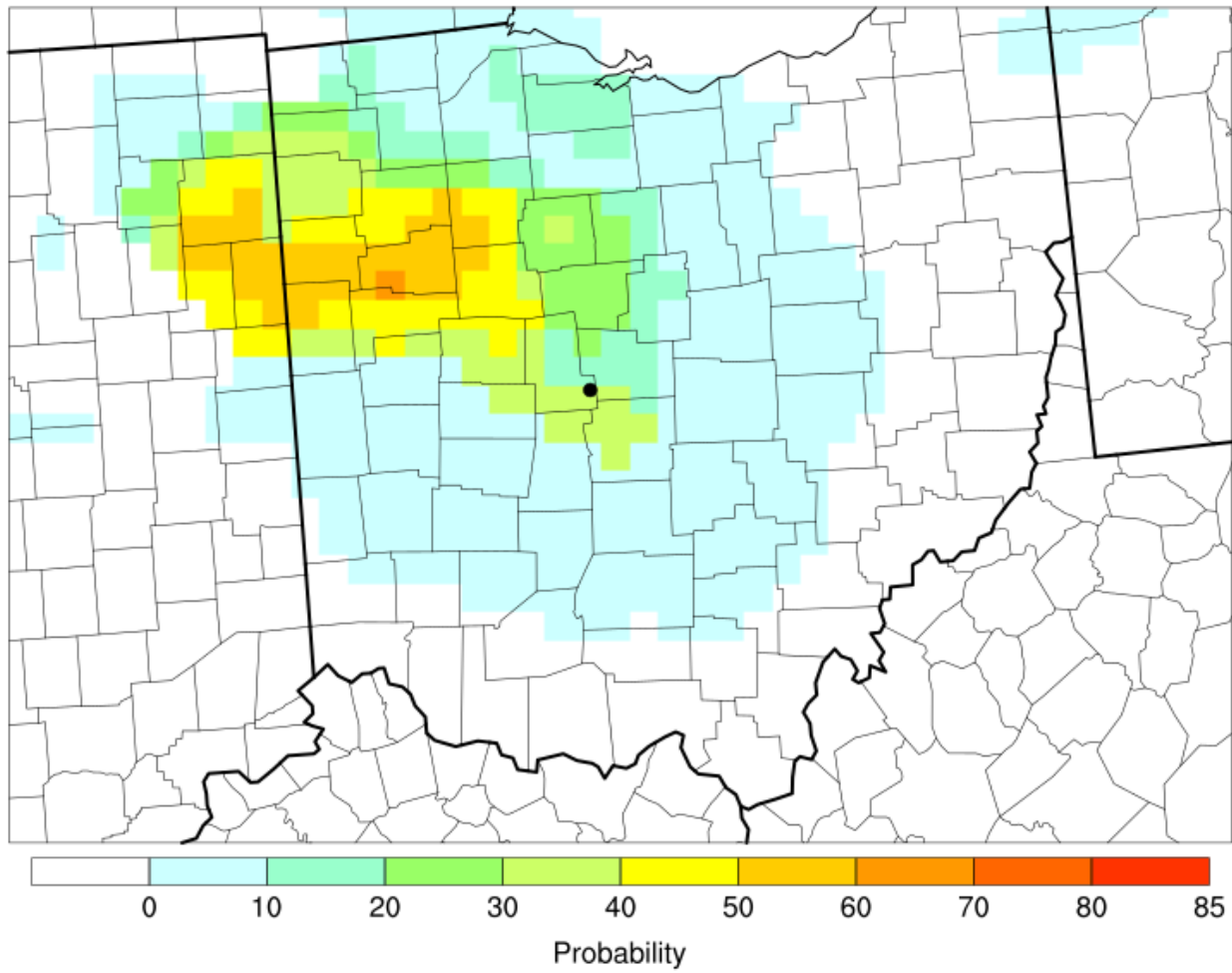


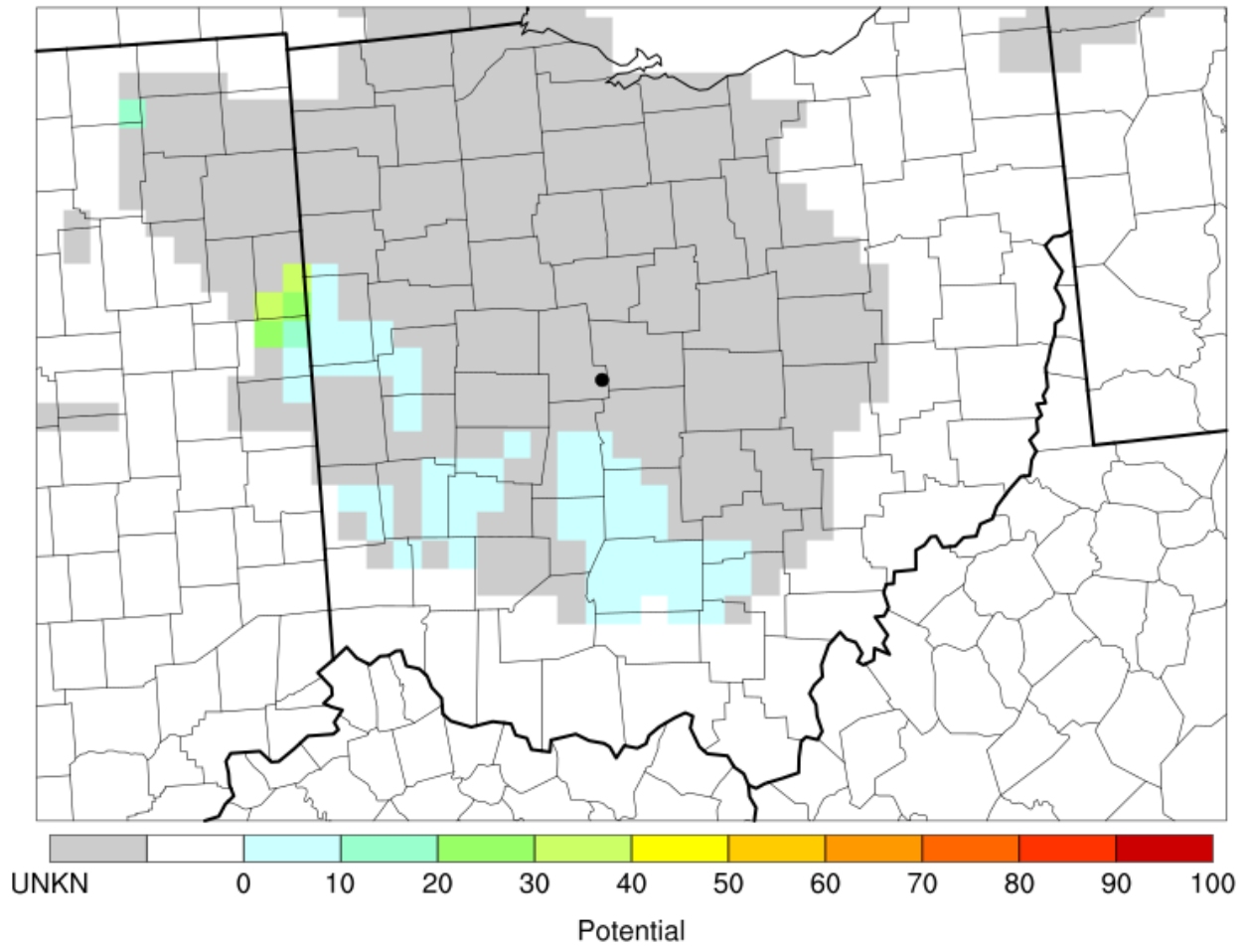


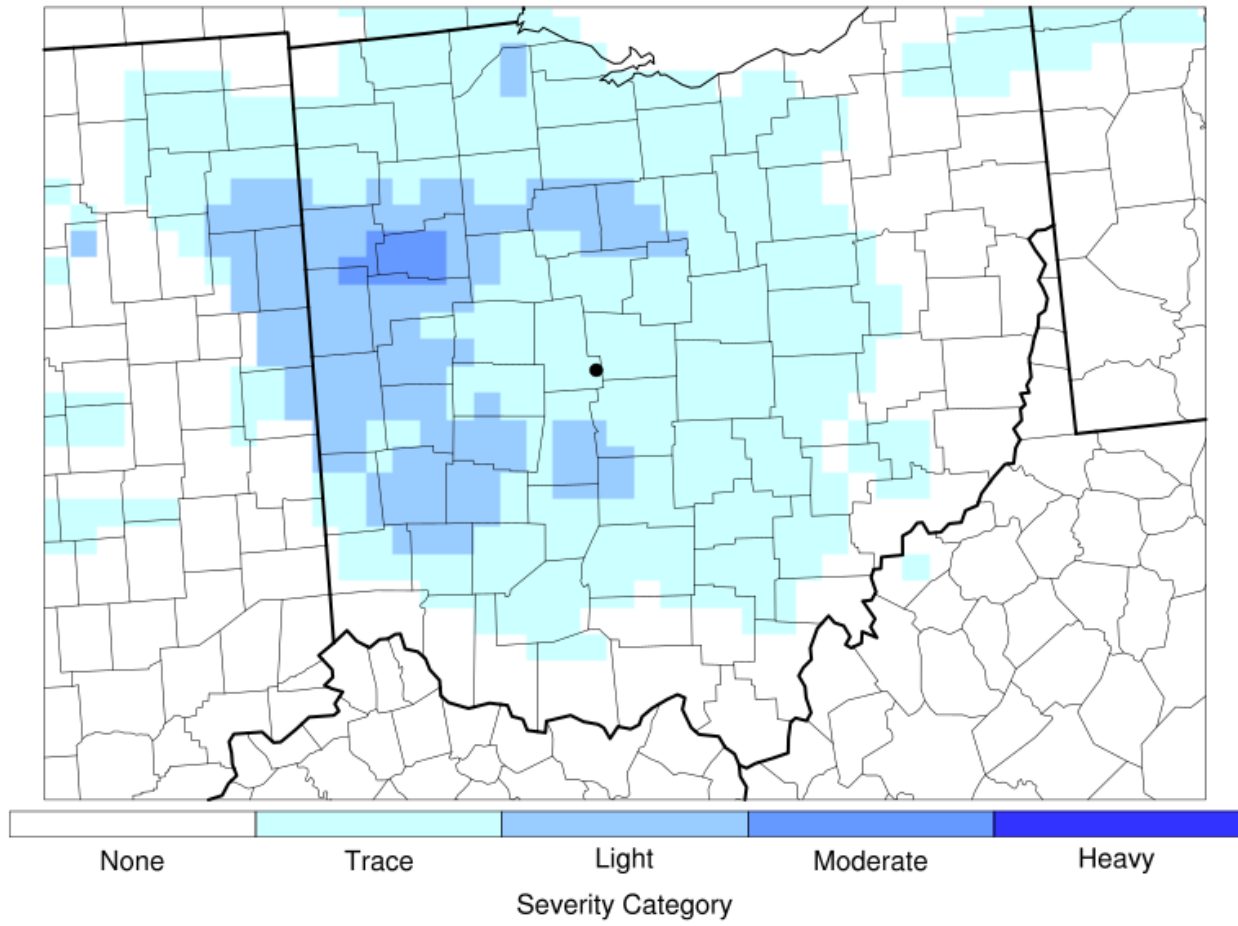




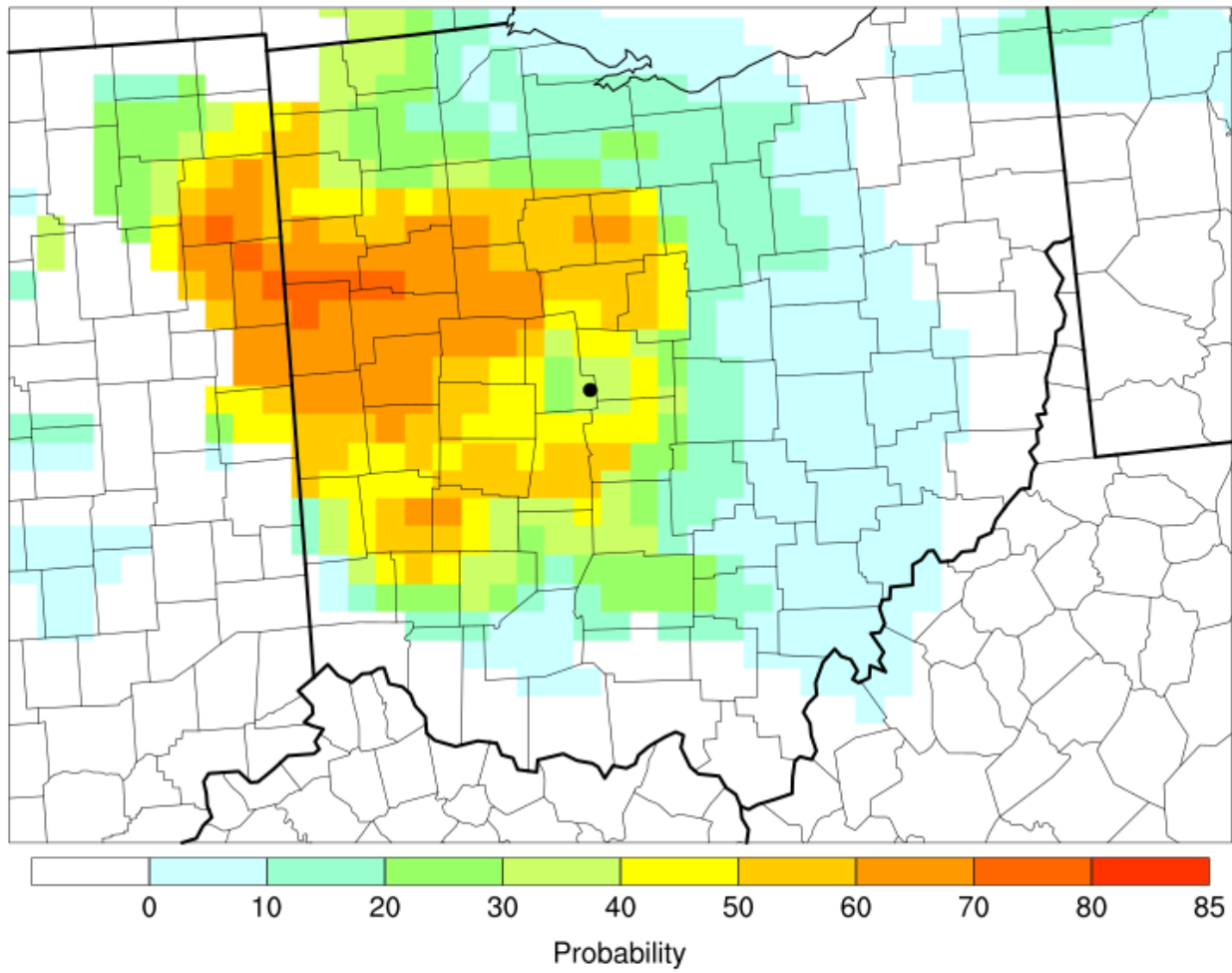


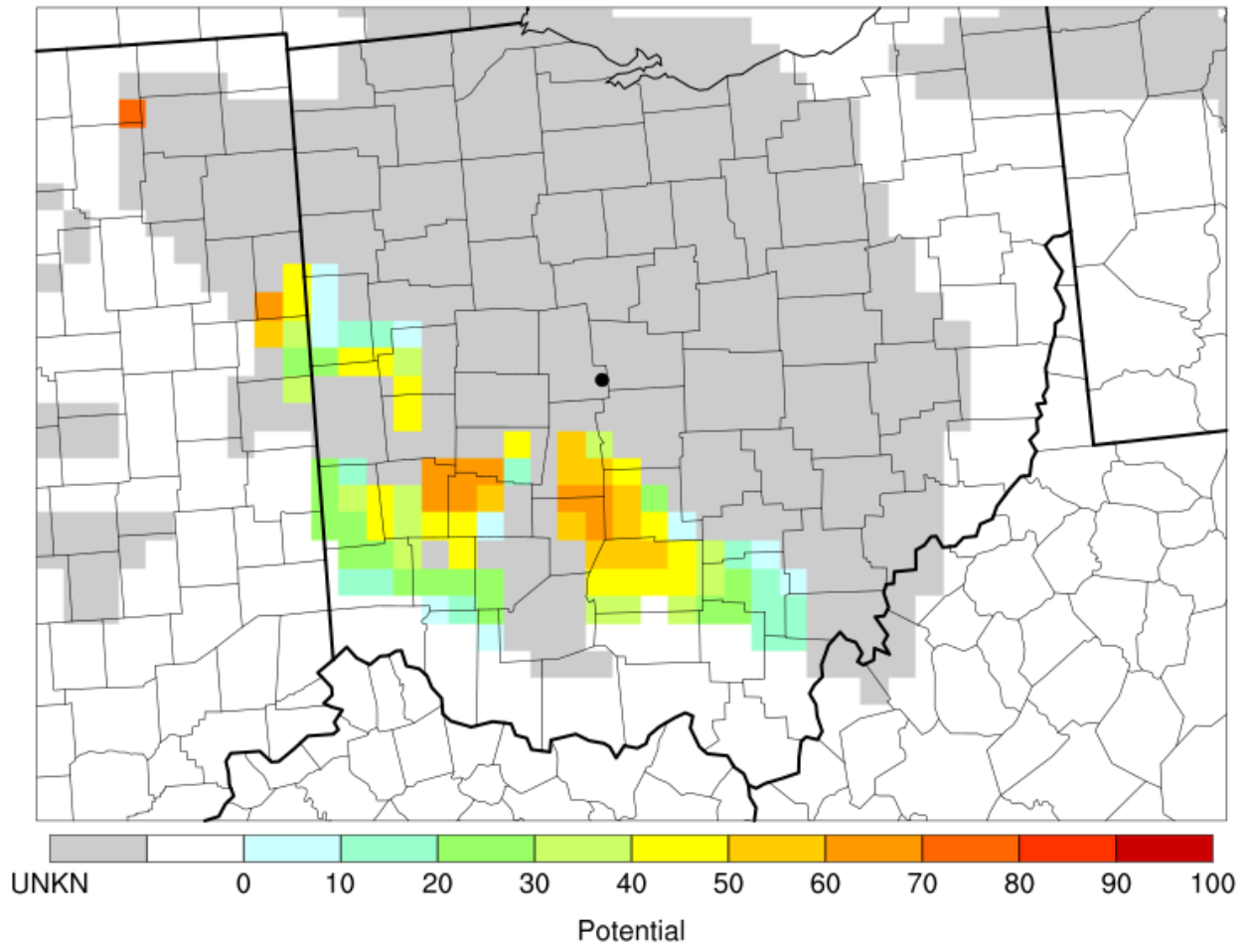


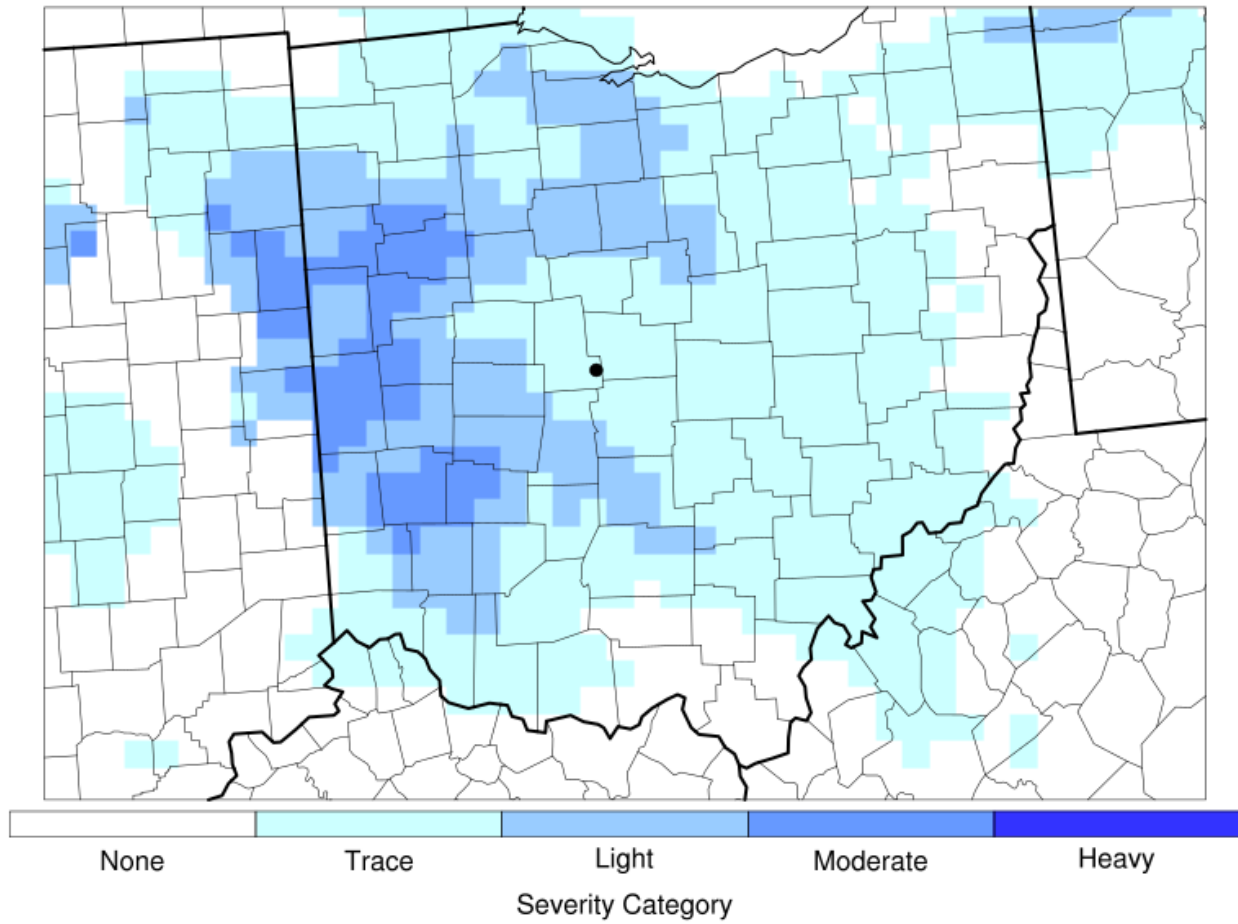


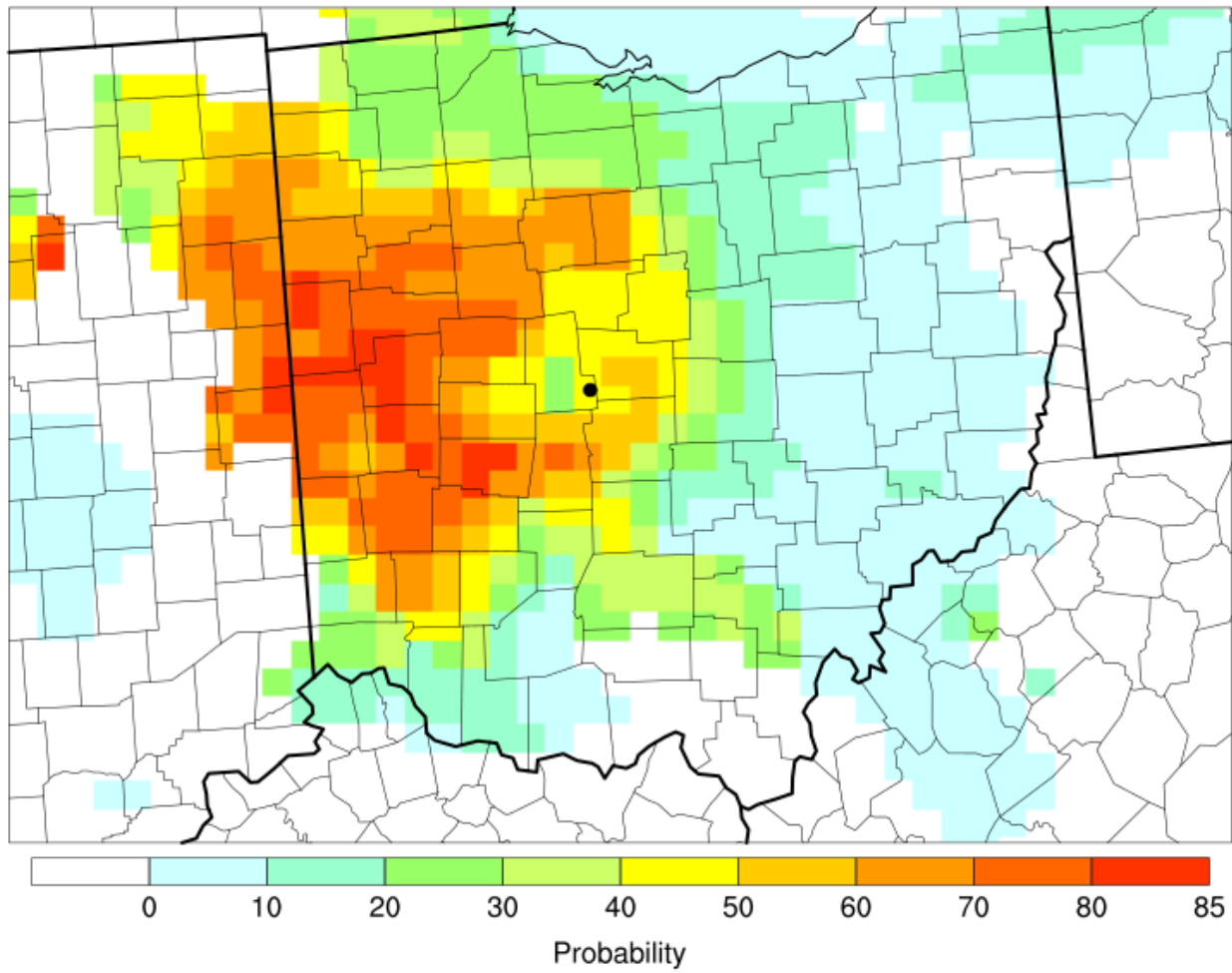


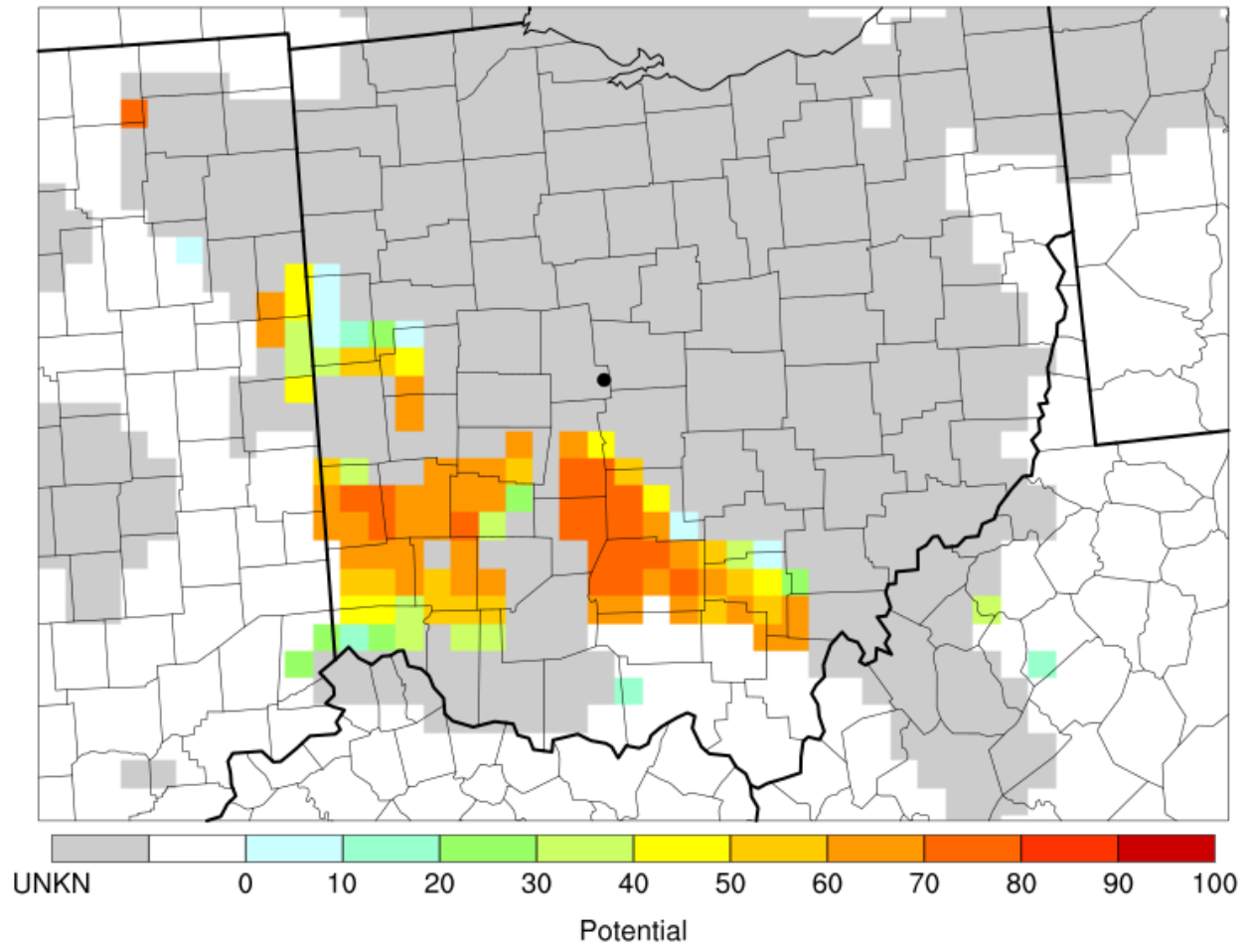


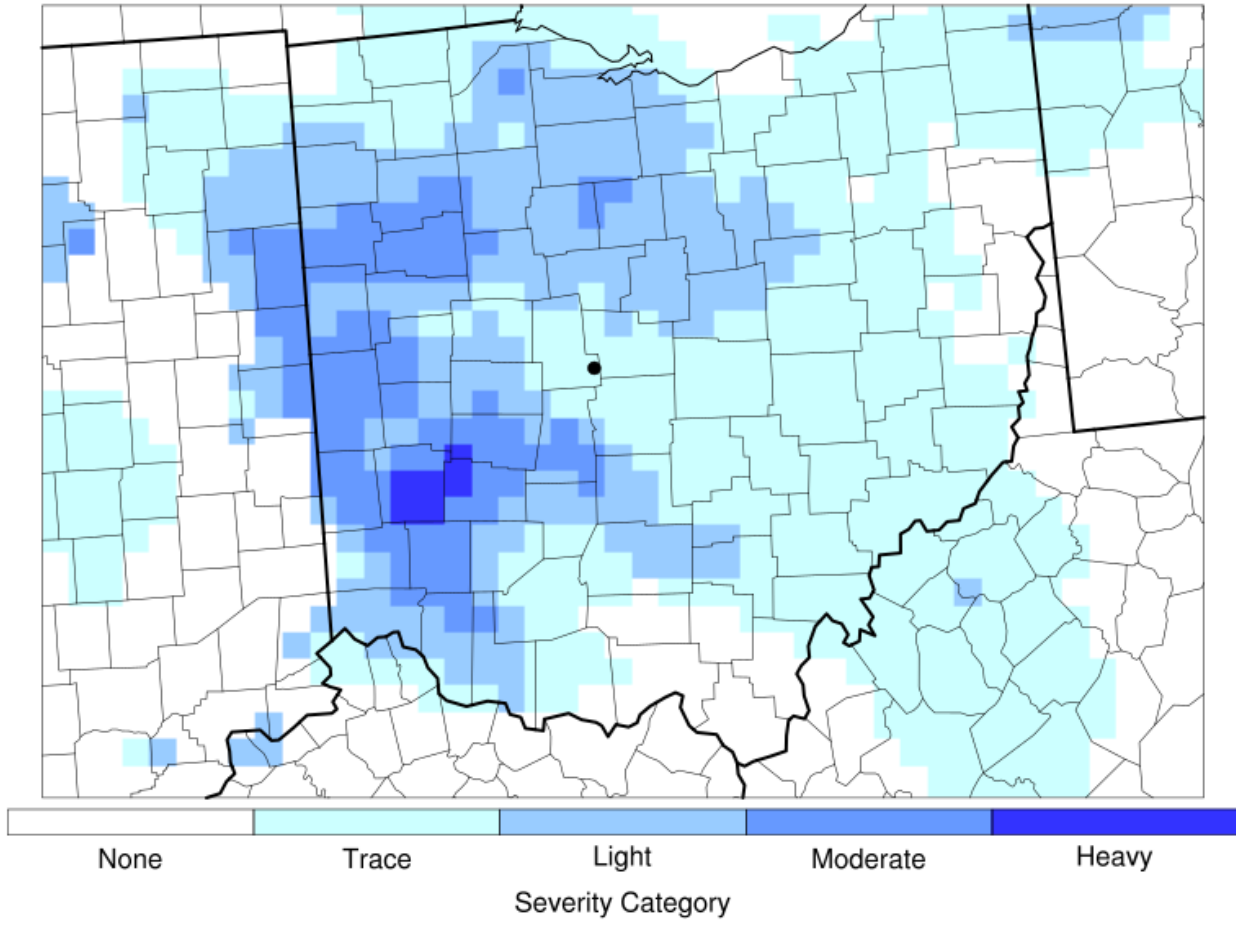


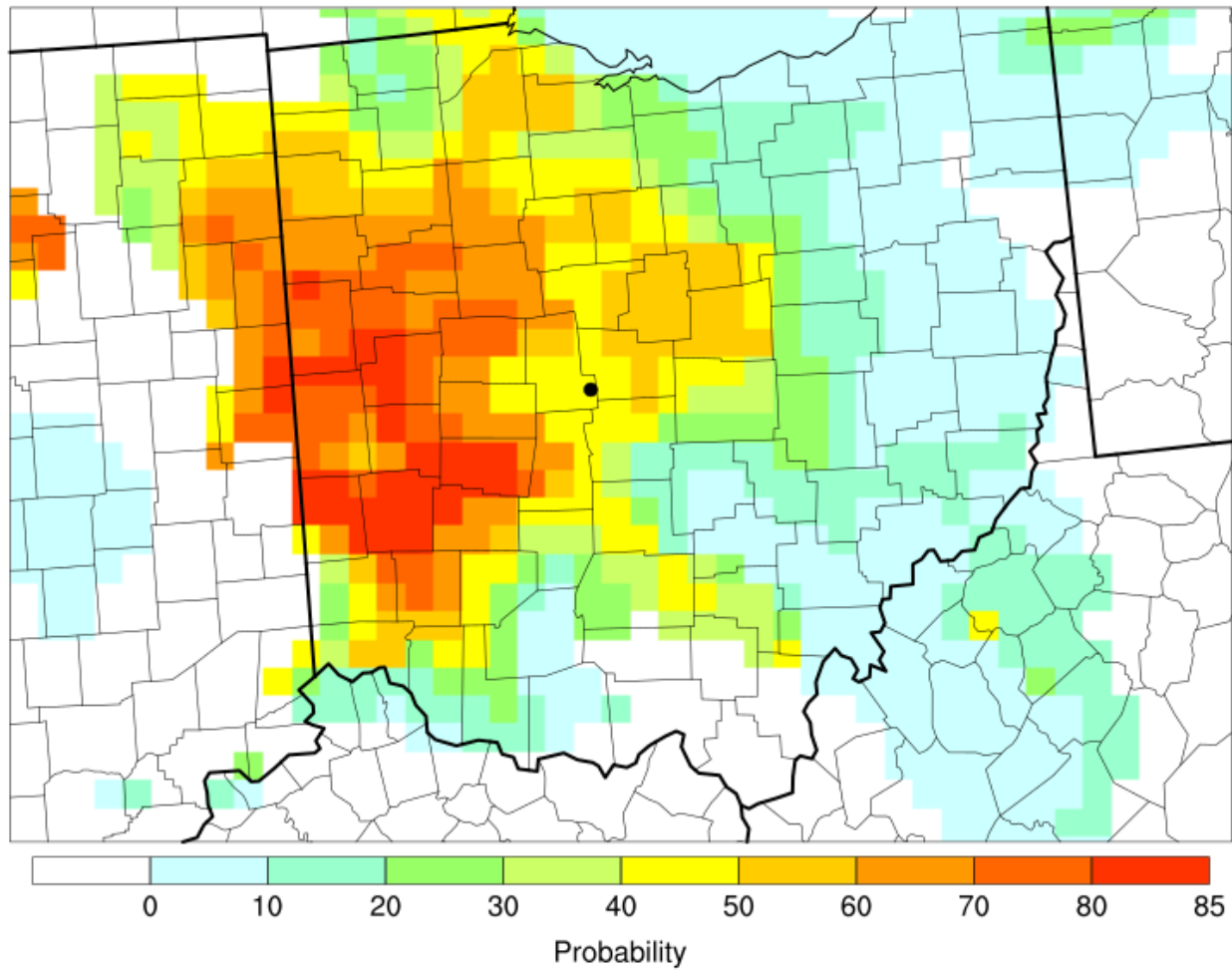


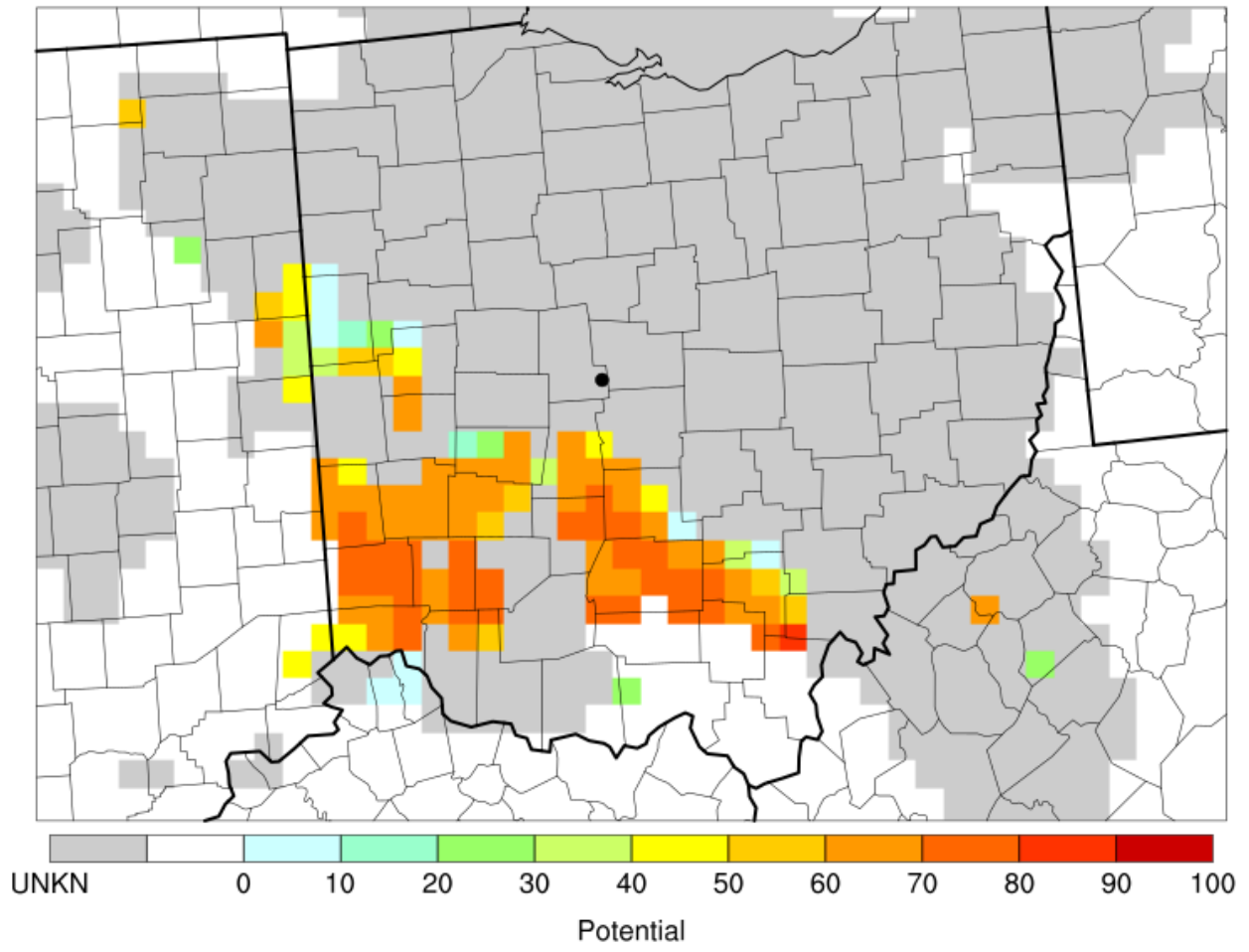










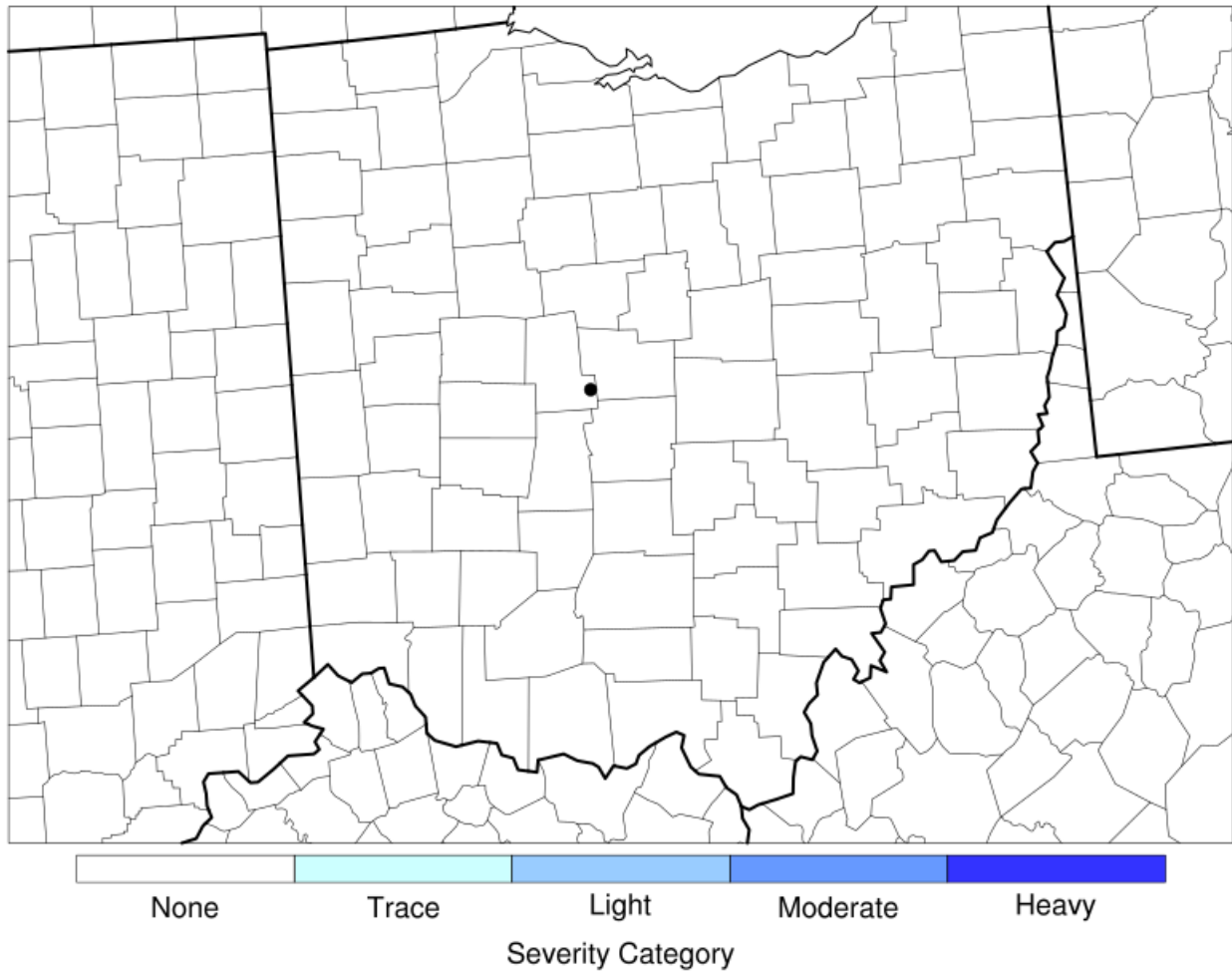




## Forecast Icing Potential

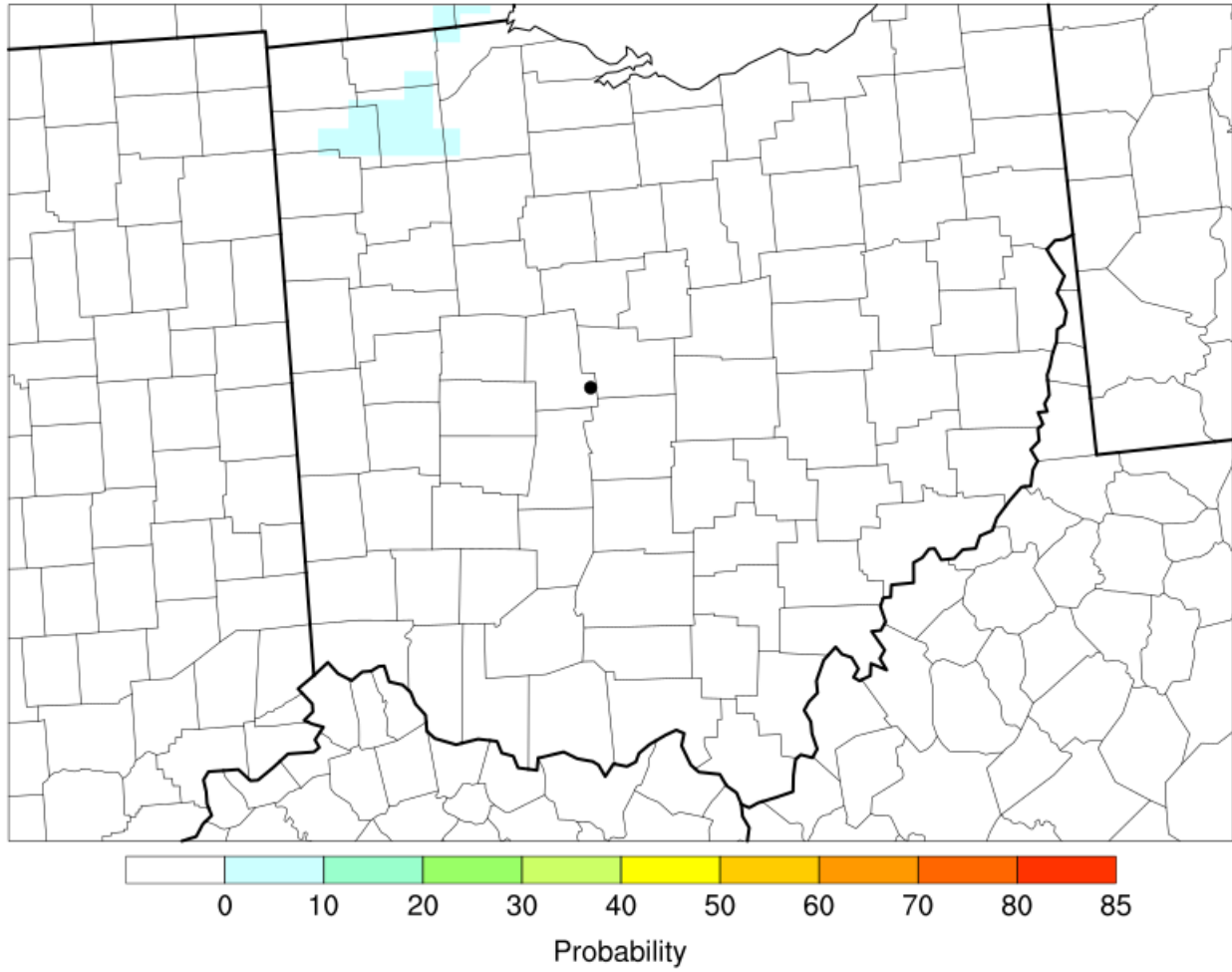
ICING SEVERITY at FL 010

01 Hour forecast valid at: 3/17/2019 2100 UTC

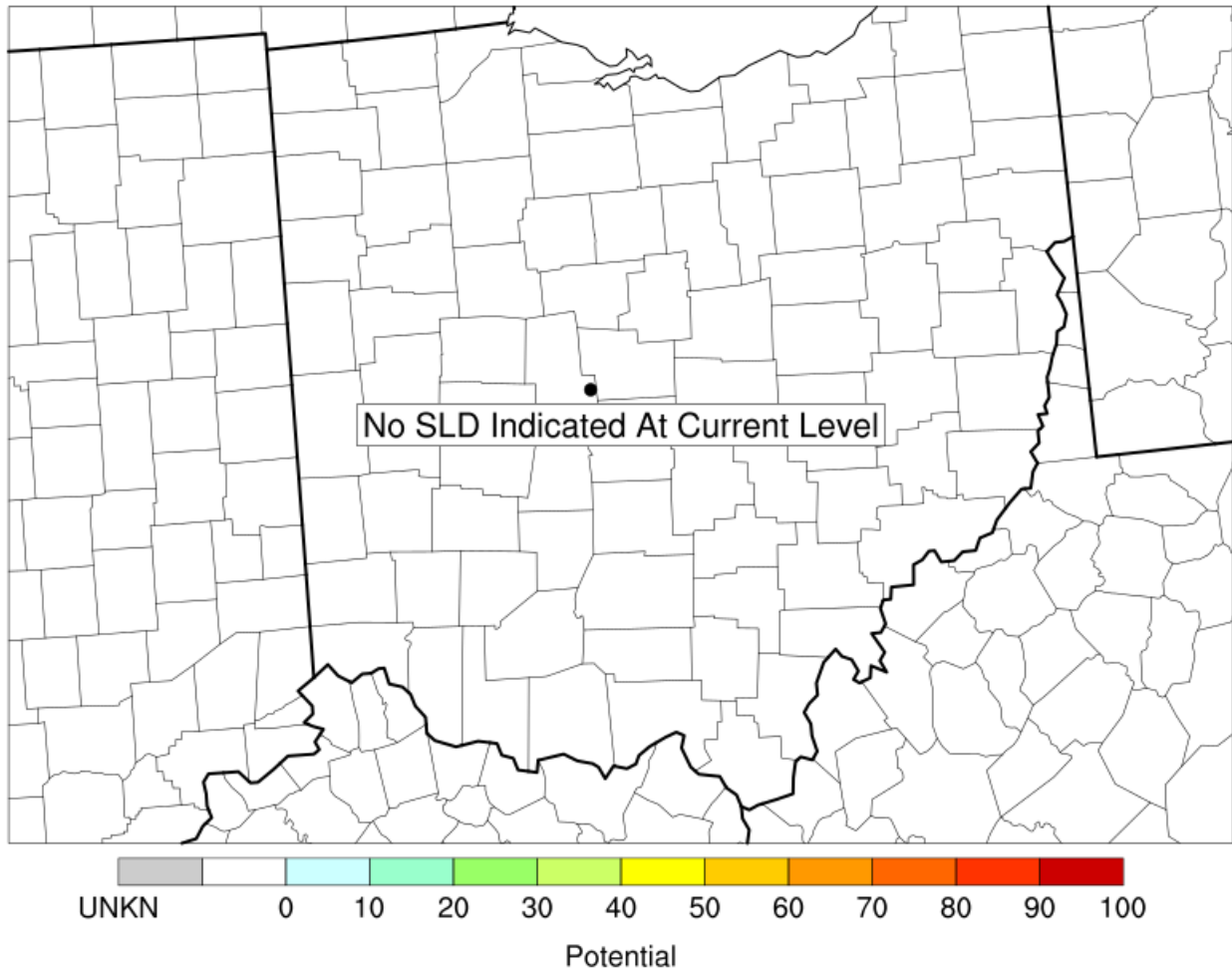


ICING PROBABILITY at FL 010

01 Hour forecast valid at: 3/17/2019 2100 UTC

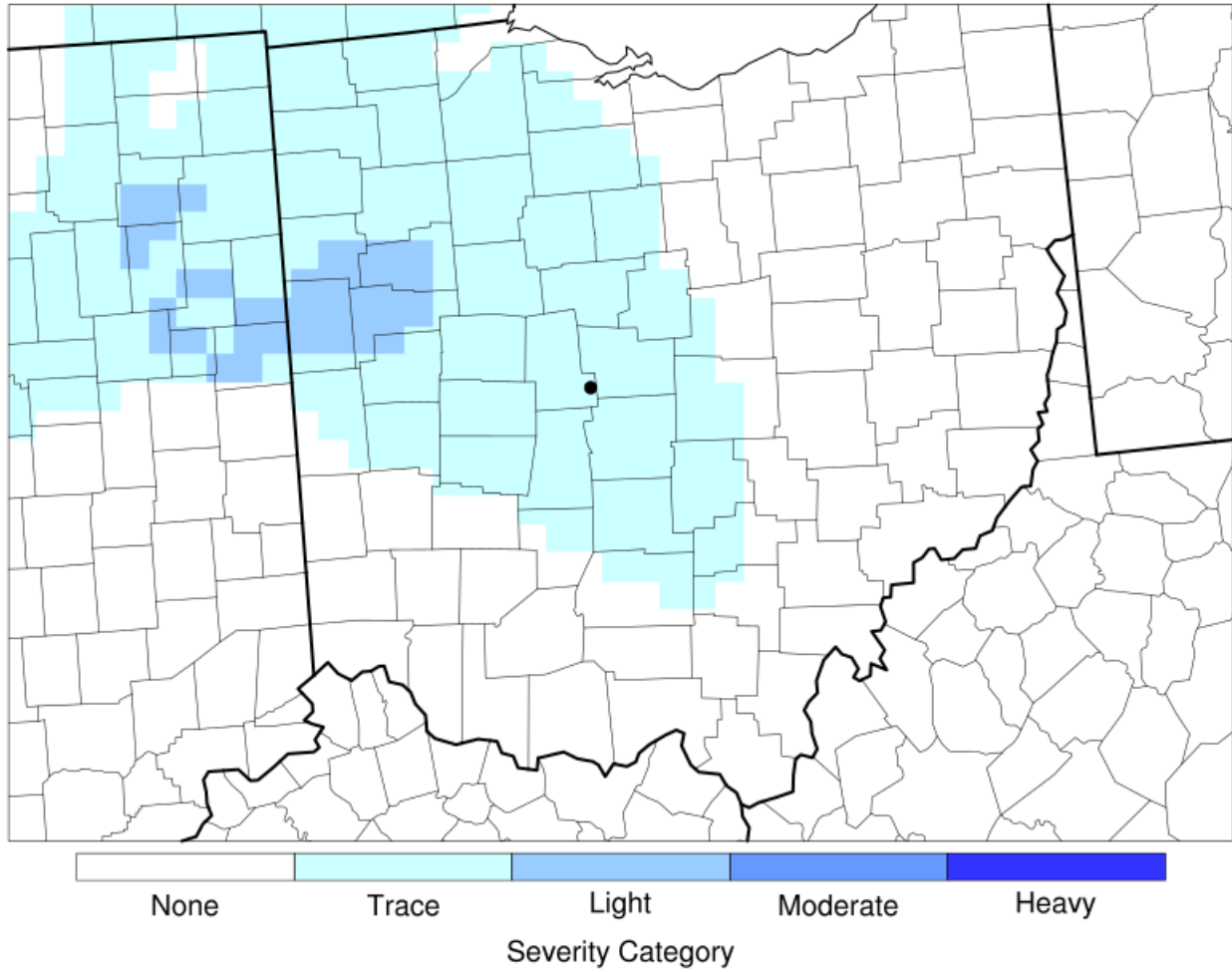


SUPERCOOLED LARGE DROP POTENTIAL at 011010ur forecast valid at: 3/17/2019 2100 UTC



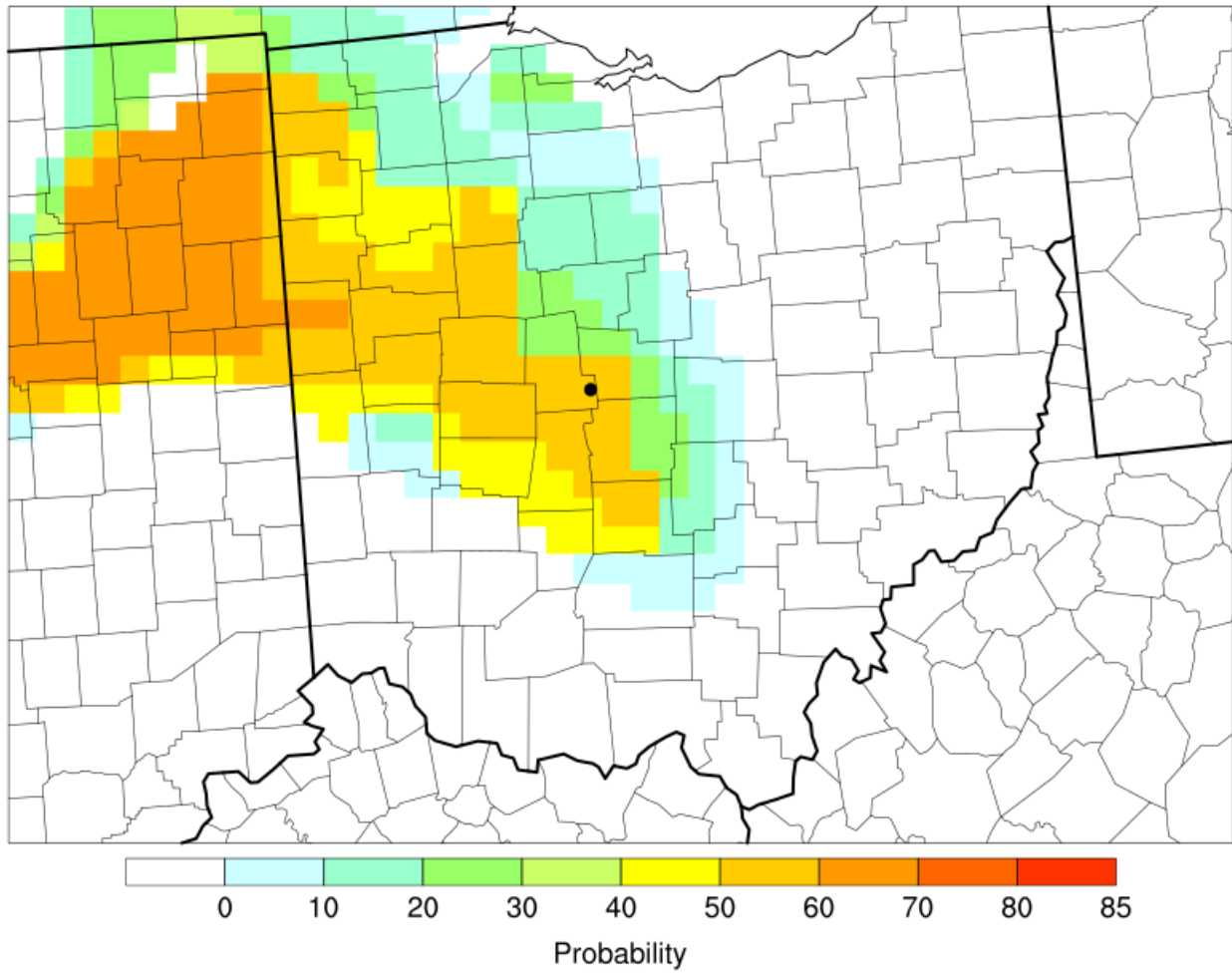
ICING SEVERITY at FL 020

01 Hour forecast valid at: 3/17/2019 2100 UTC

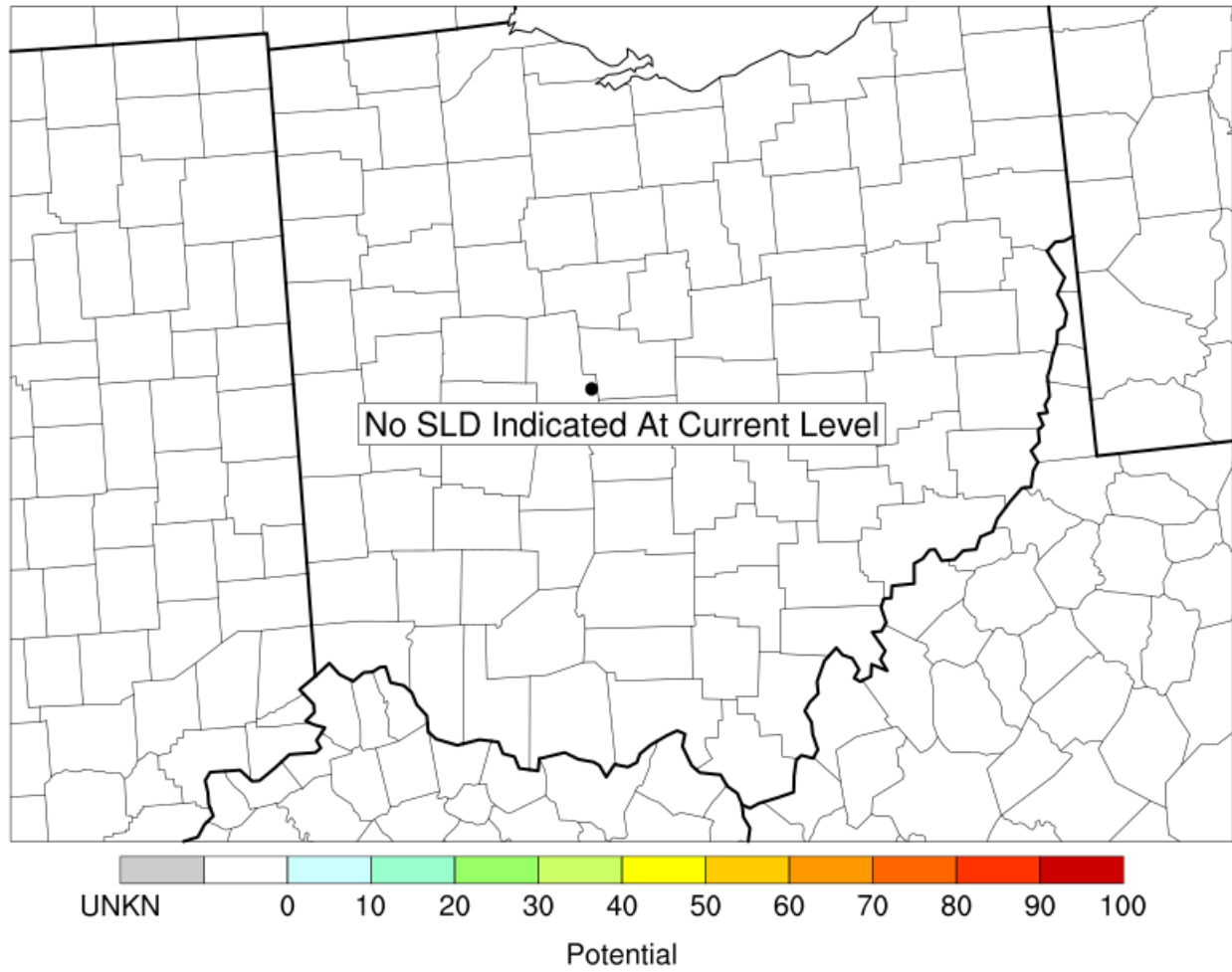


ICING PROBABILITY at FL 020

01 Hour forecast valid at: 3/17/2019 2100 UTC

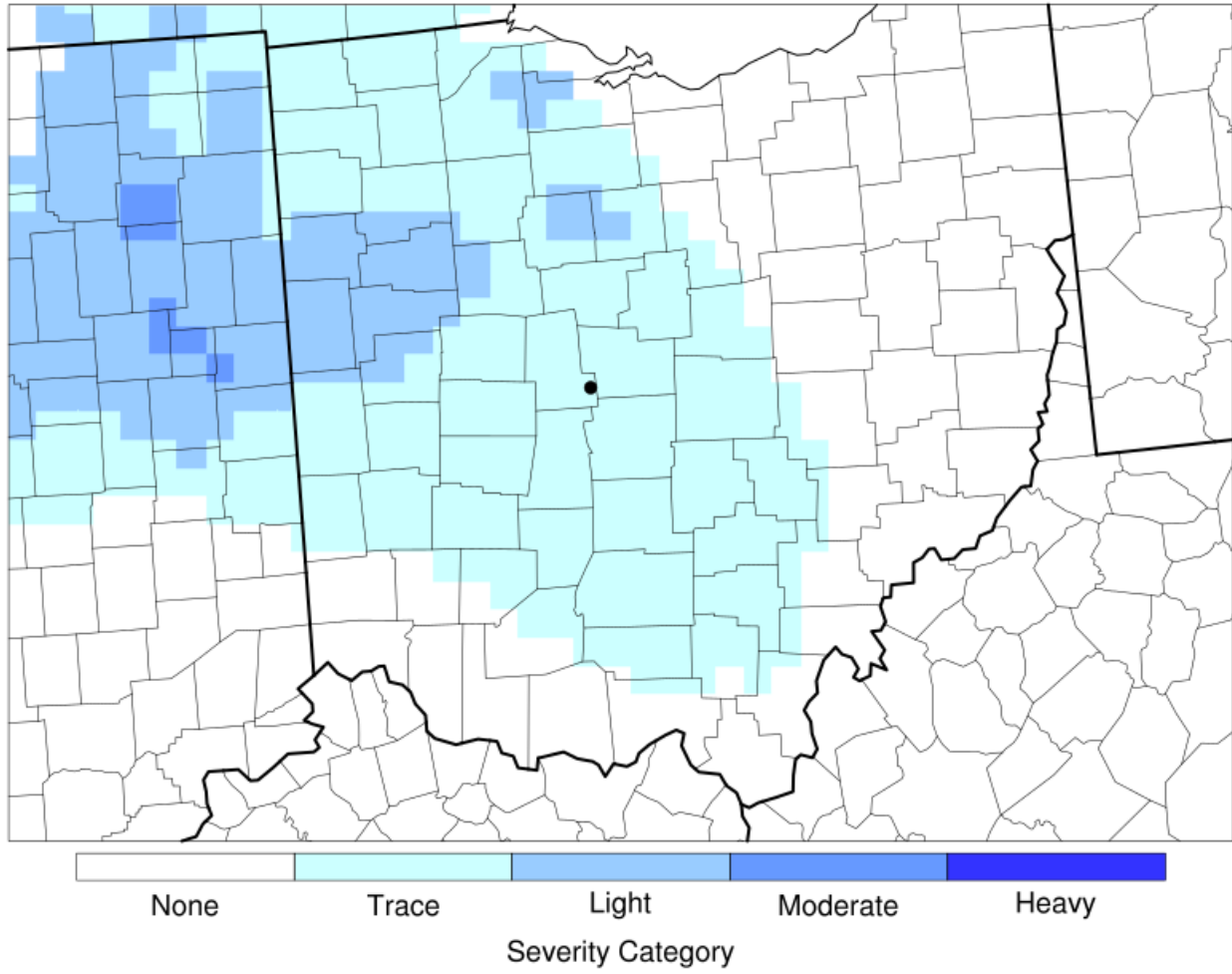


SUPERCOOLED LARGE DROP POTENTIAL at 1020 our forecast valid at: 3/17/2019 2100 UTC



ICING SEVERITY at FL 030

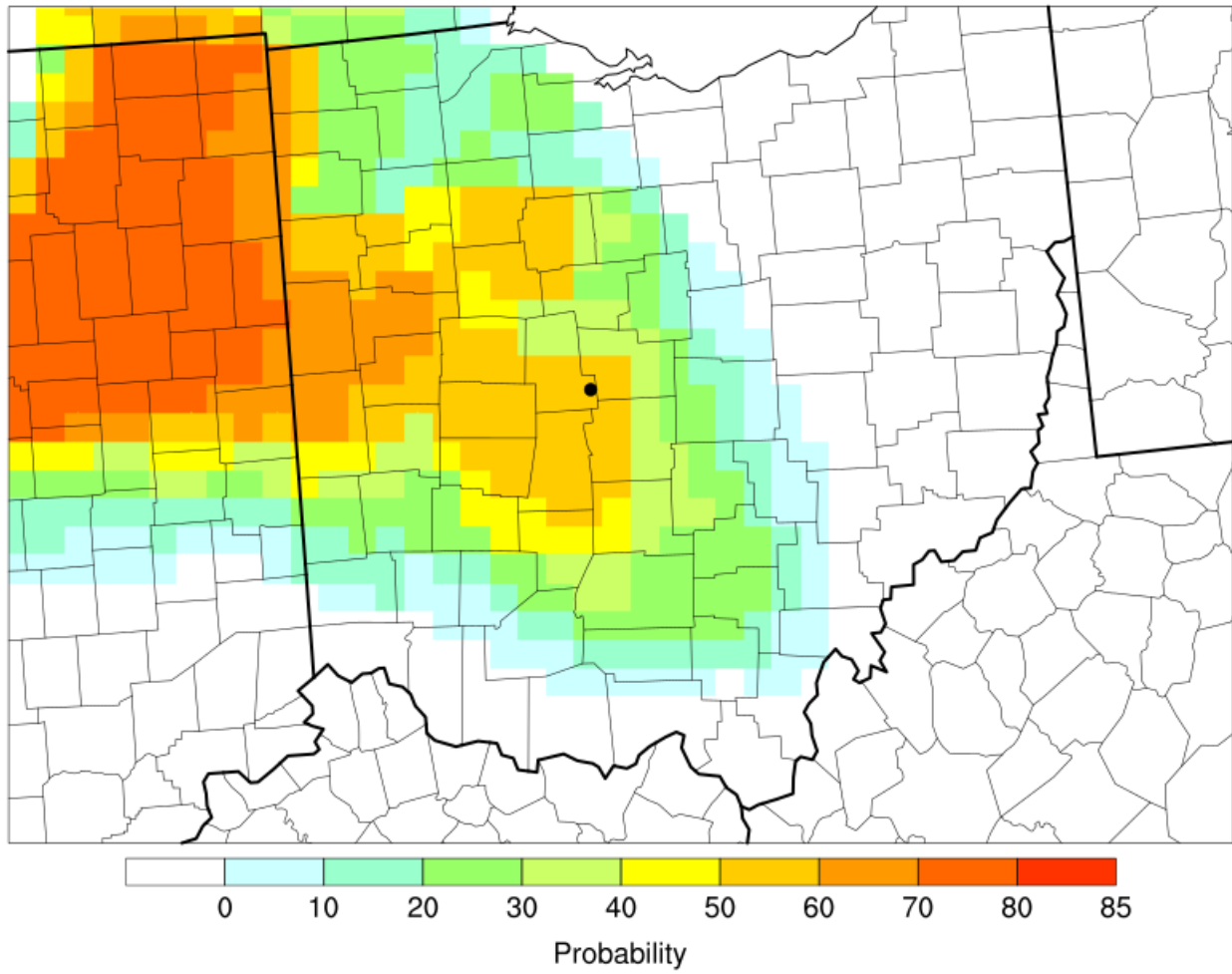
01 Hour forecast valid at: 3/17/2019 2100 UTC



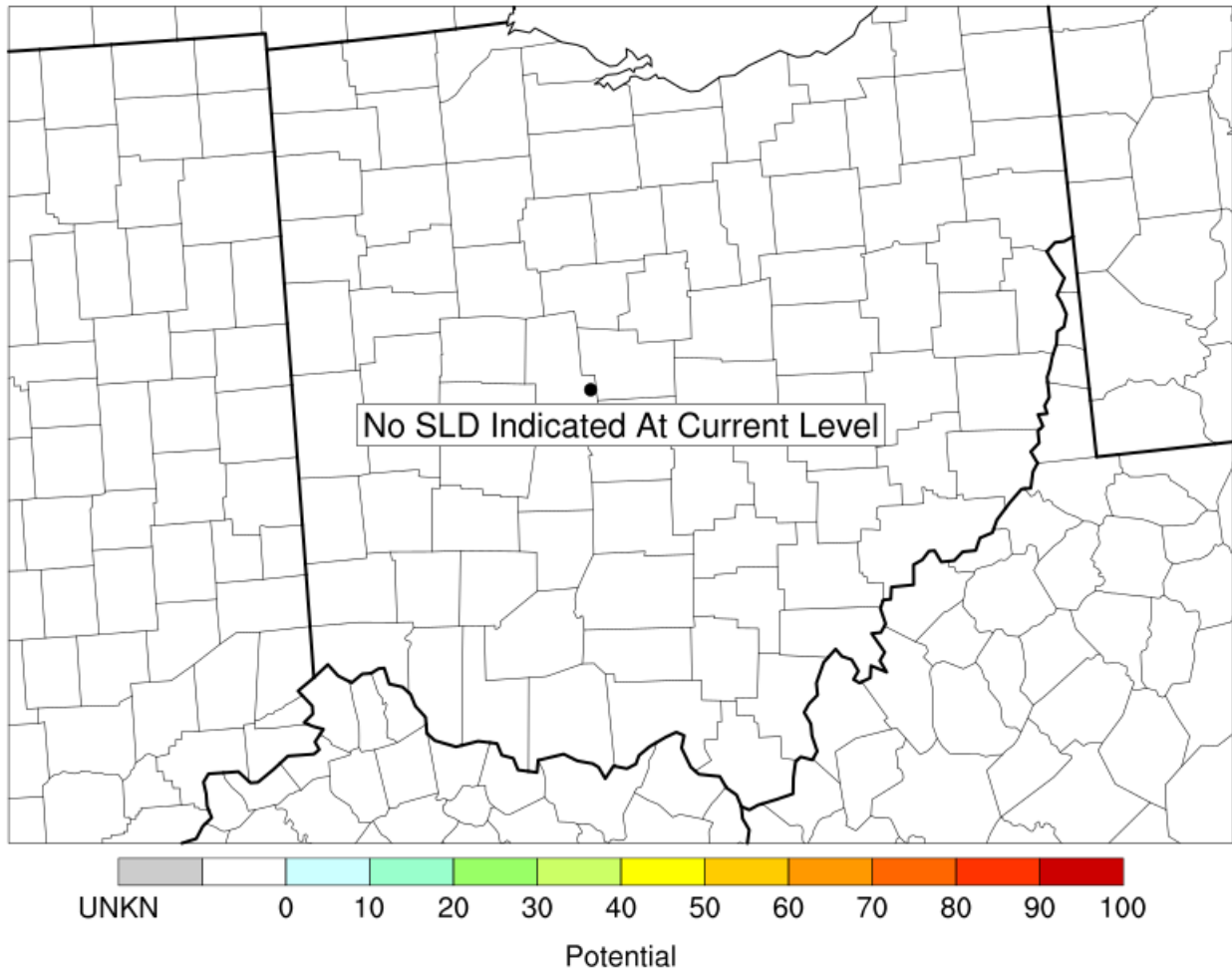


ICING PROBABILITY at FL 030

01 Hour forecast valid at: 3/17/2019 2100 UTC

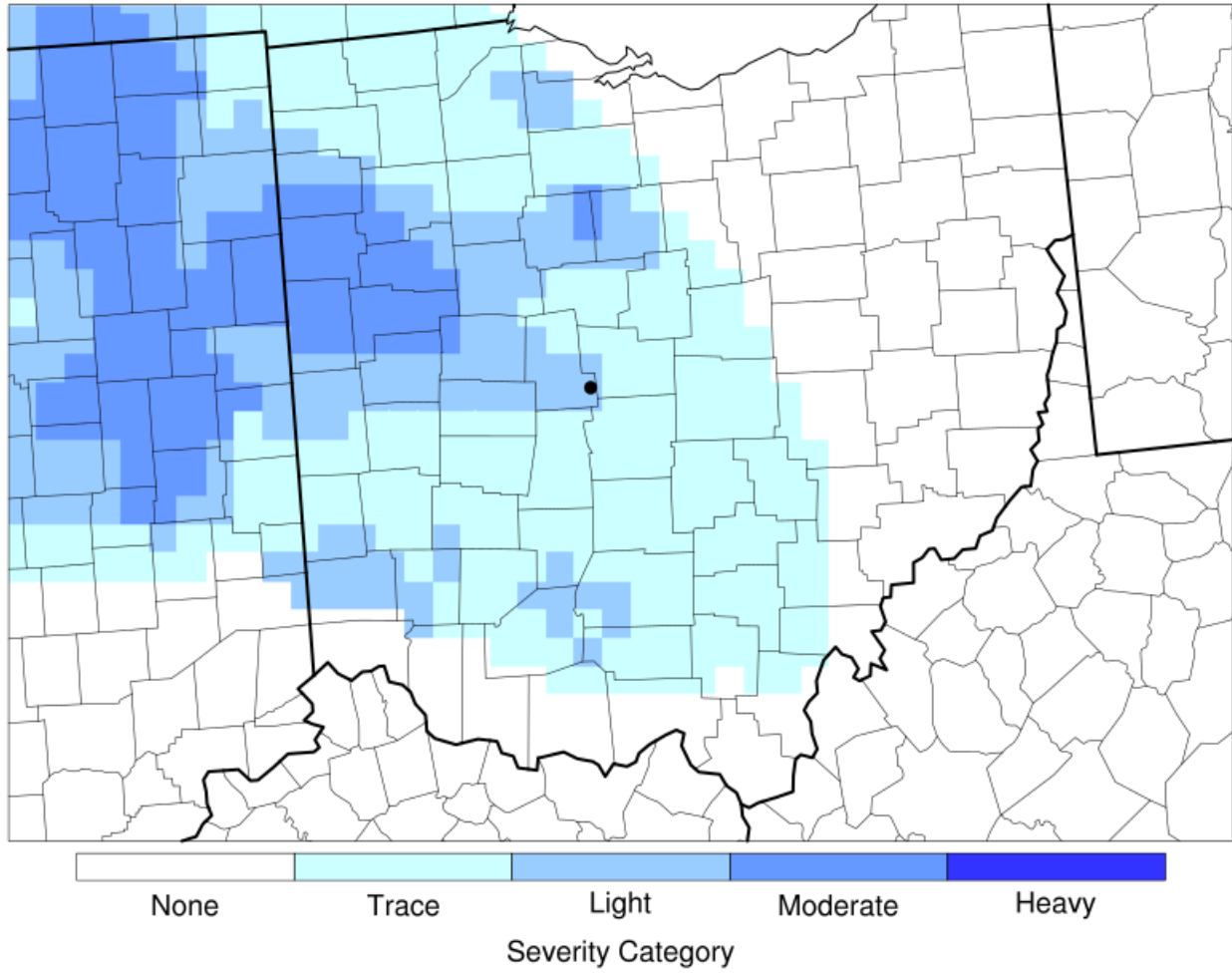


SUPERCOOLED LARGE DROP POTENTIAL at 010300Z our forecast valid at: 3/17/2019 2100 UTC



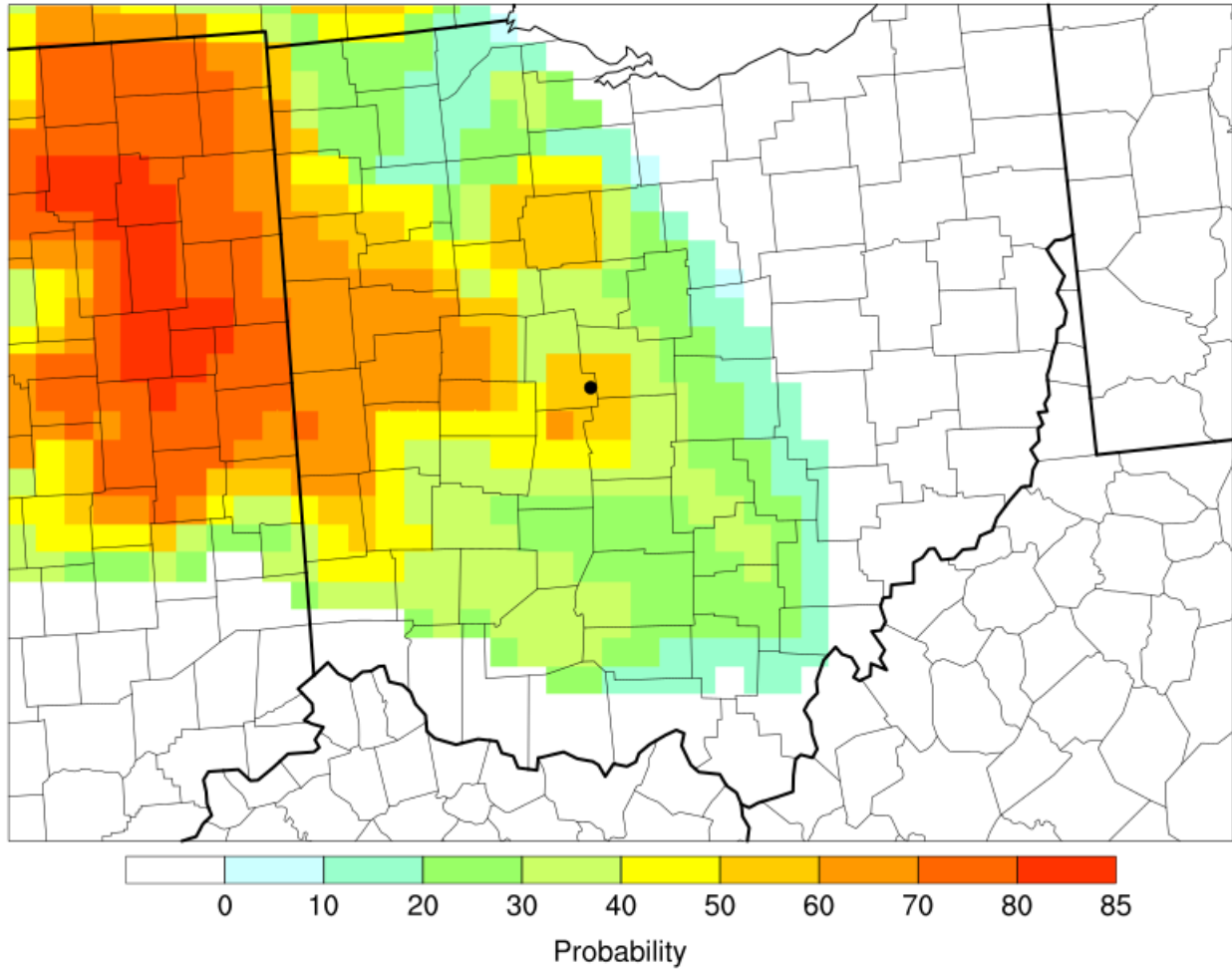
ICING SEVERITY at FL 040

01 Hour forecast valid at: 3/17/2019 2100 UTC

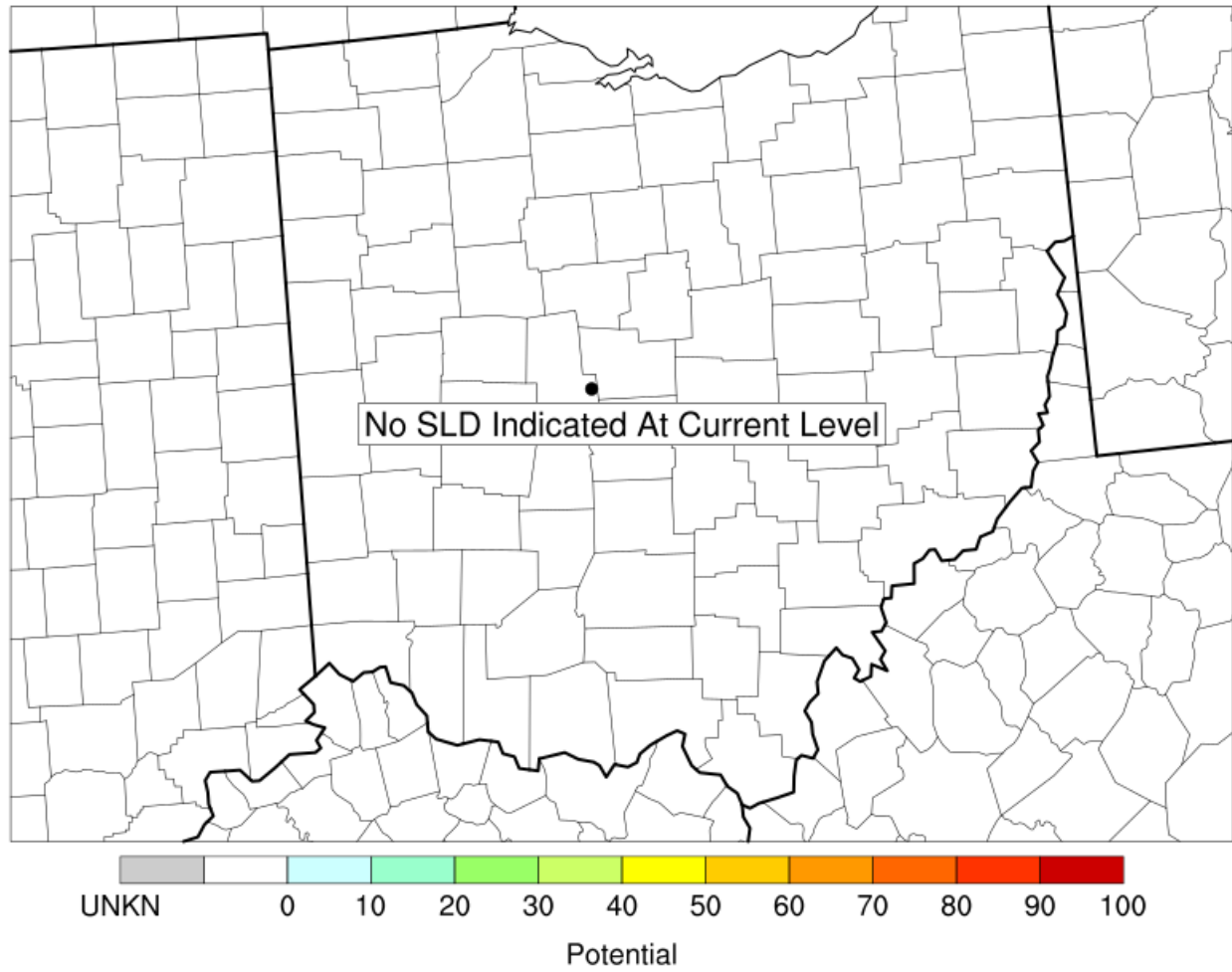


ICING PROBABILITY at FL 040

01 Hour forecast valid at: 3/17/2019 2100 UTC

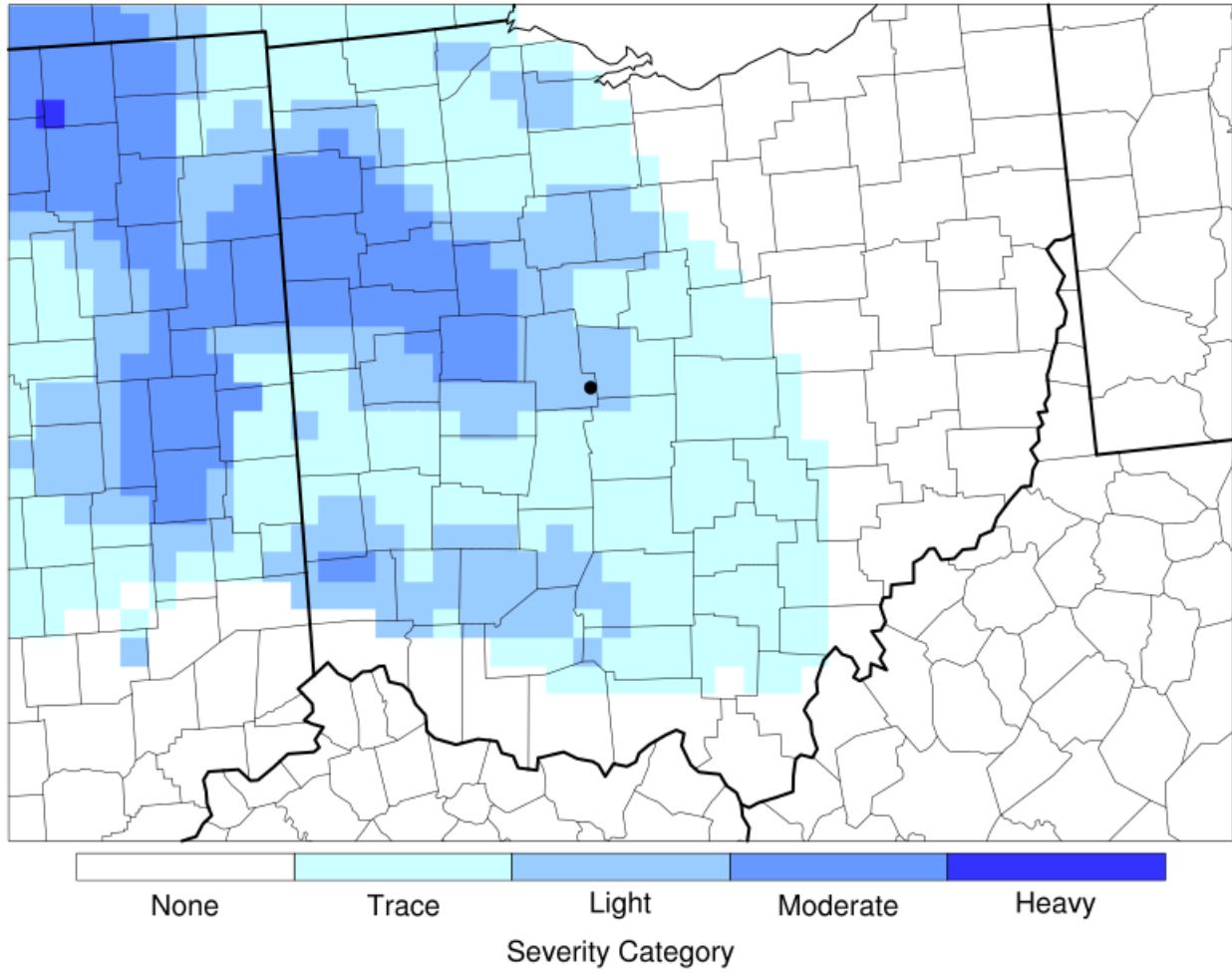


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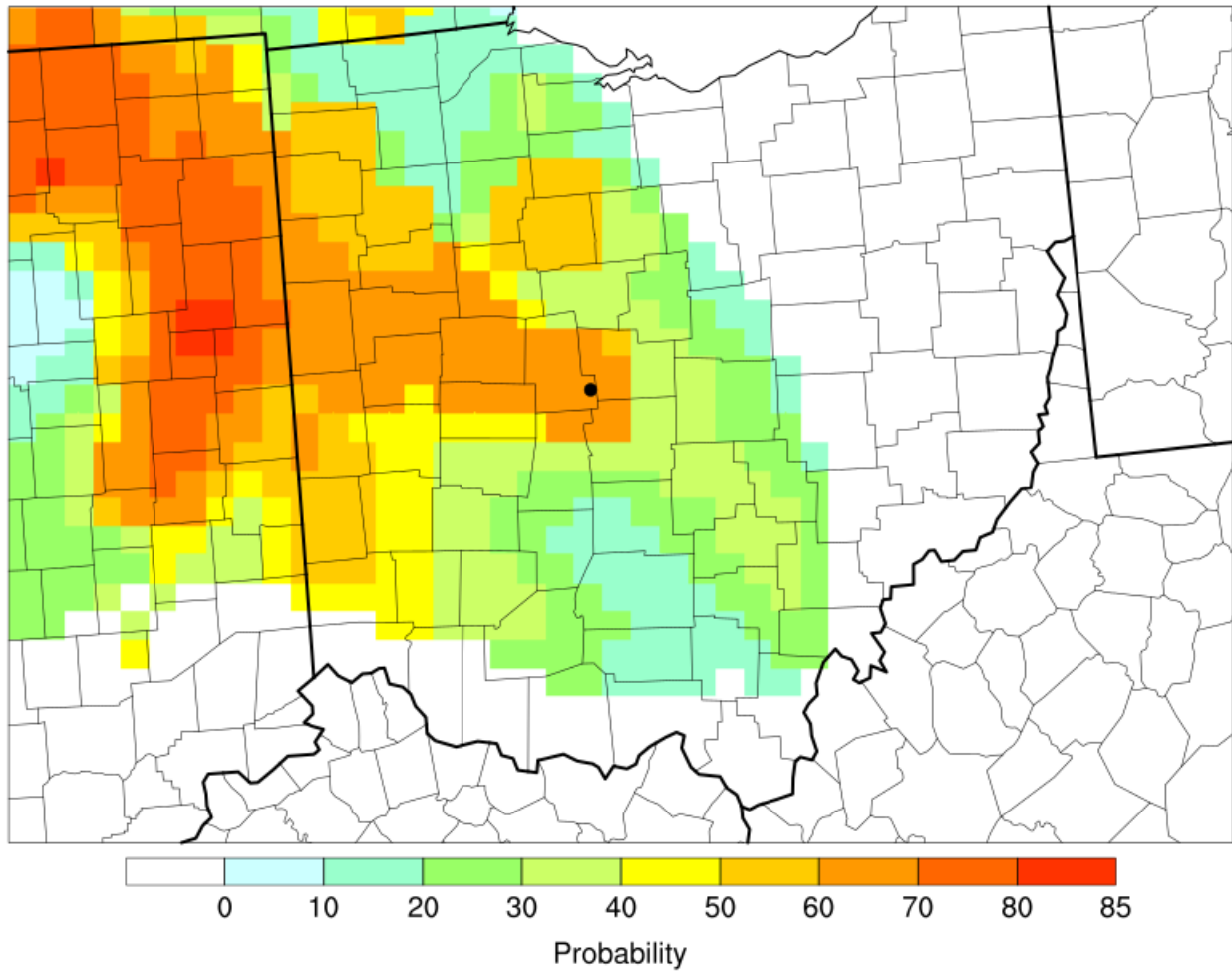
ICING SEVERITY at FL 050

01 Hour forecast valid at: 3/17/2019 2100 UTC

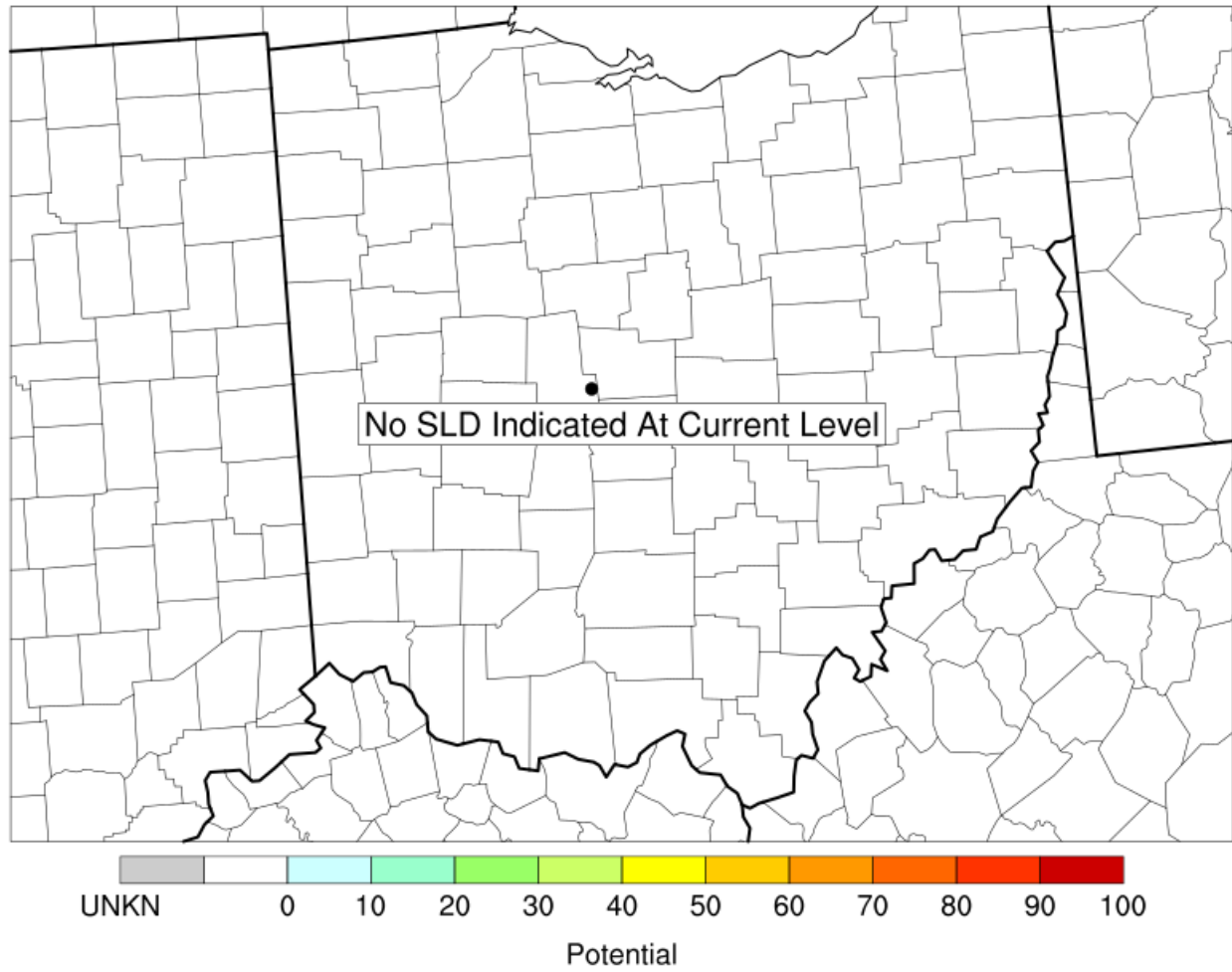


ICING PROBABILITY at FL 050

01 Hour forecast valid at: 3/17/2019 2100 UTC



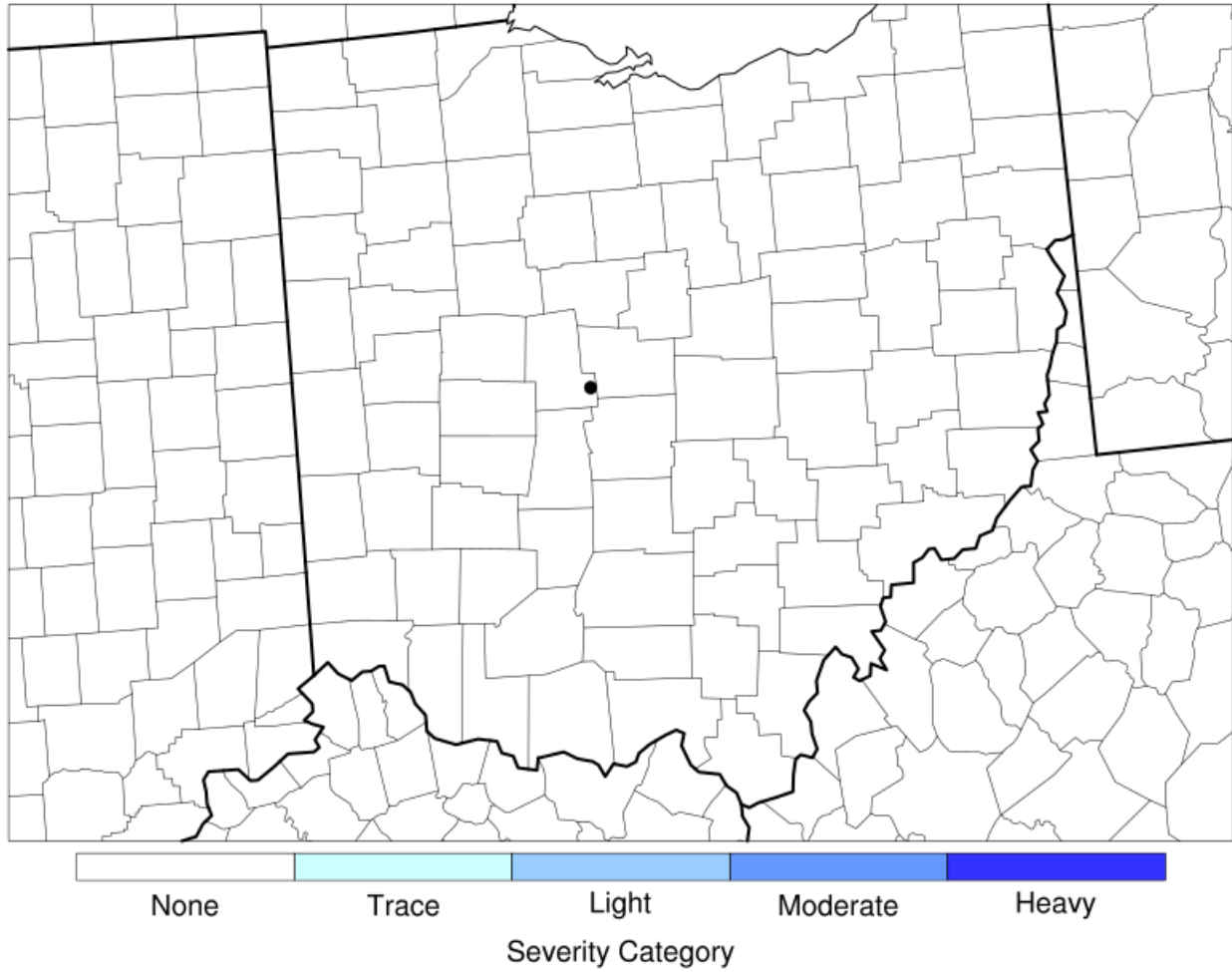
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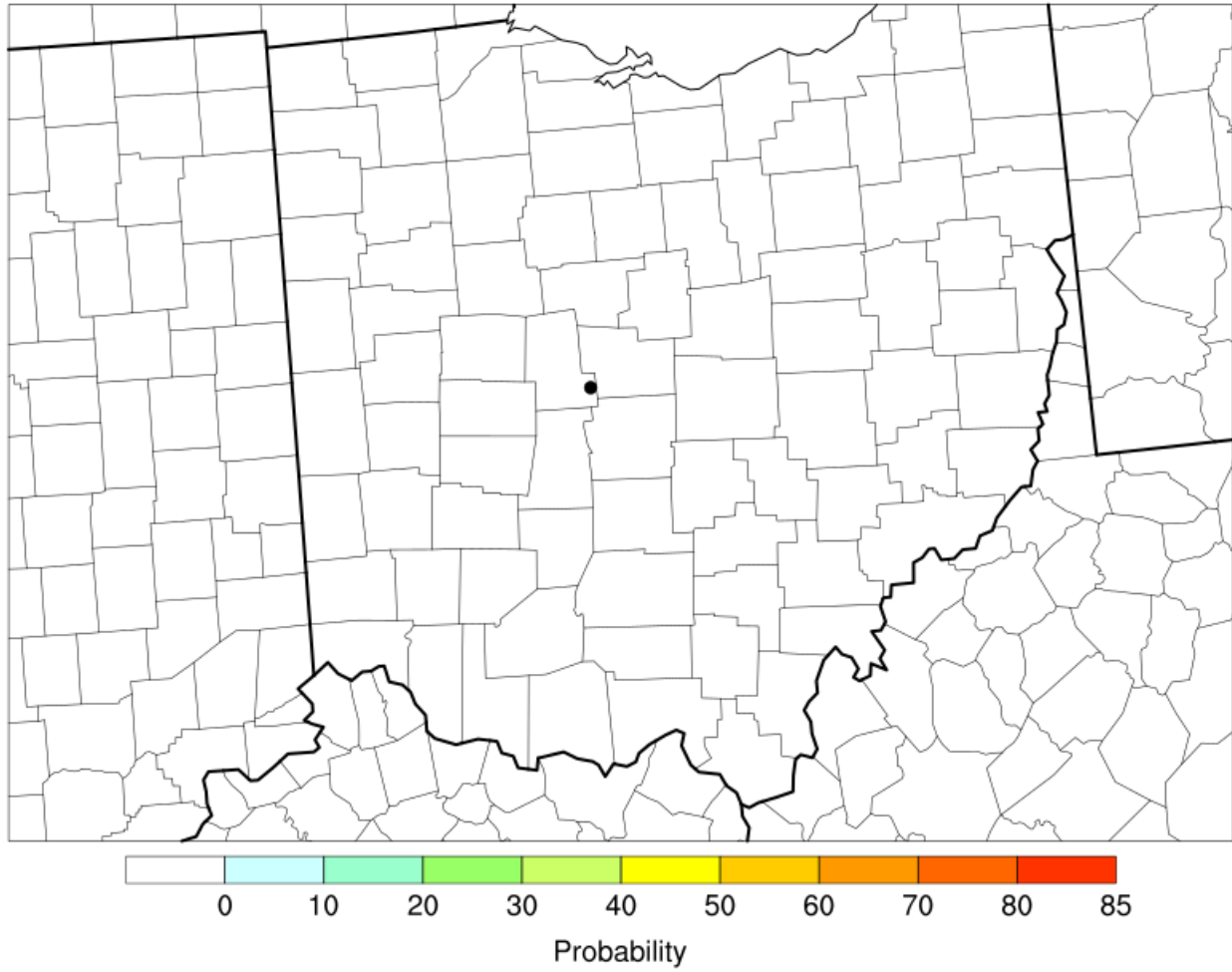
ICING SEVERITY at FL 010

02 Hour forecast valid at: 3/17/2019 2100 UTC

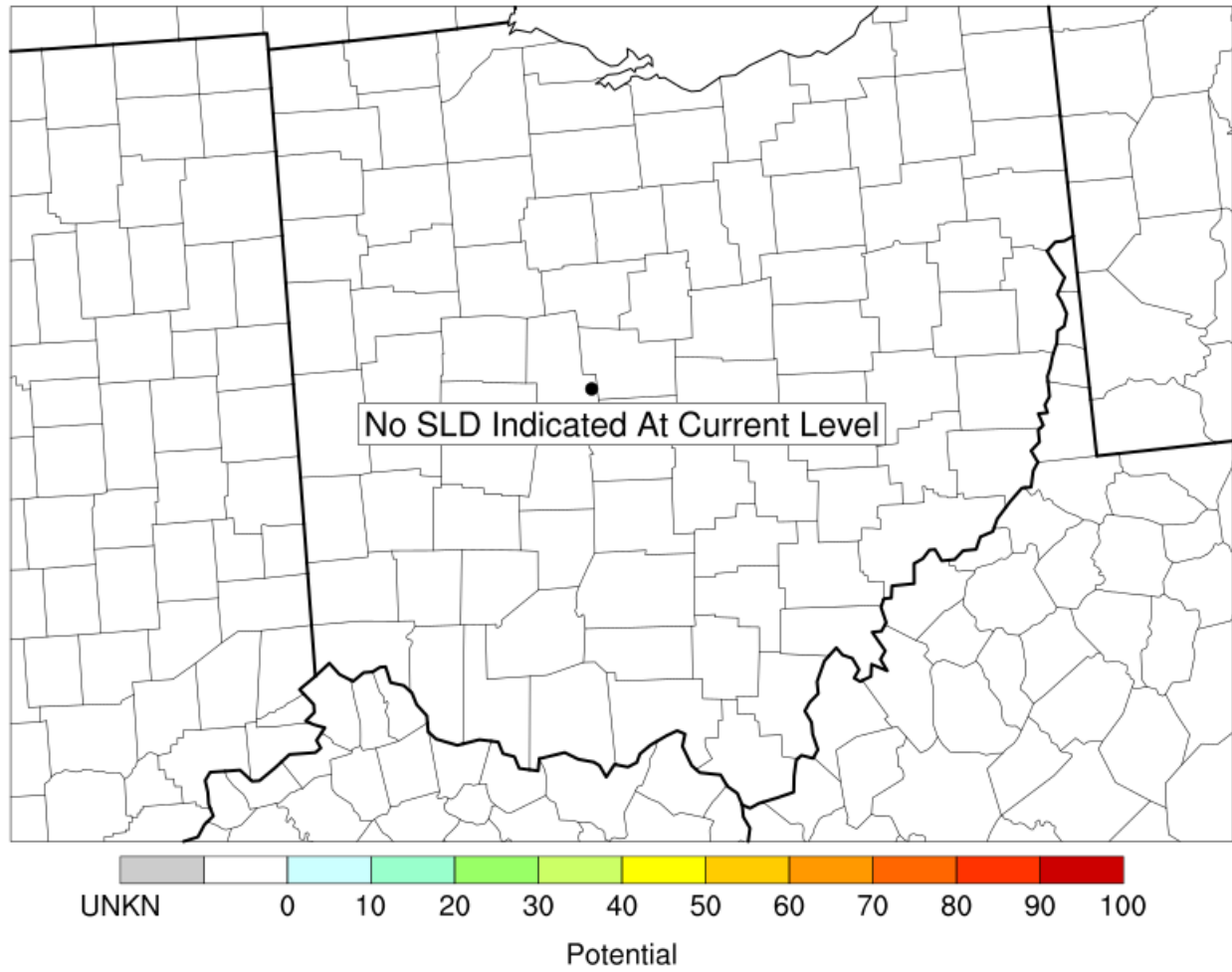


ICING PROBABILITY at FL 010

02 Hour forecast valid at: 3/17/2019 2100 UTC

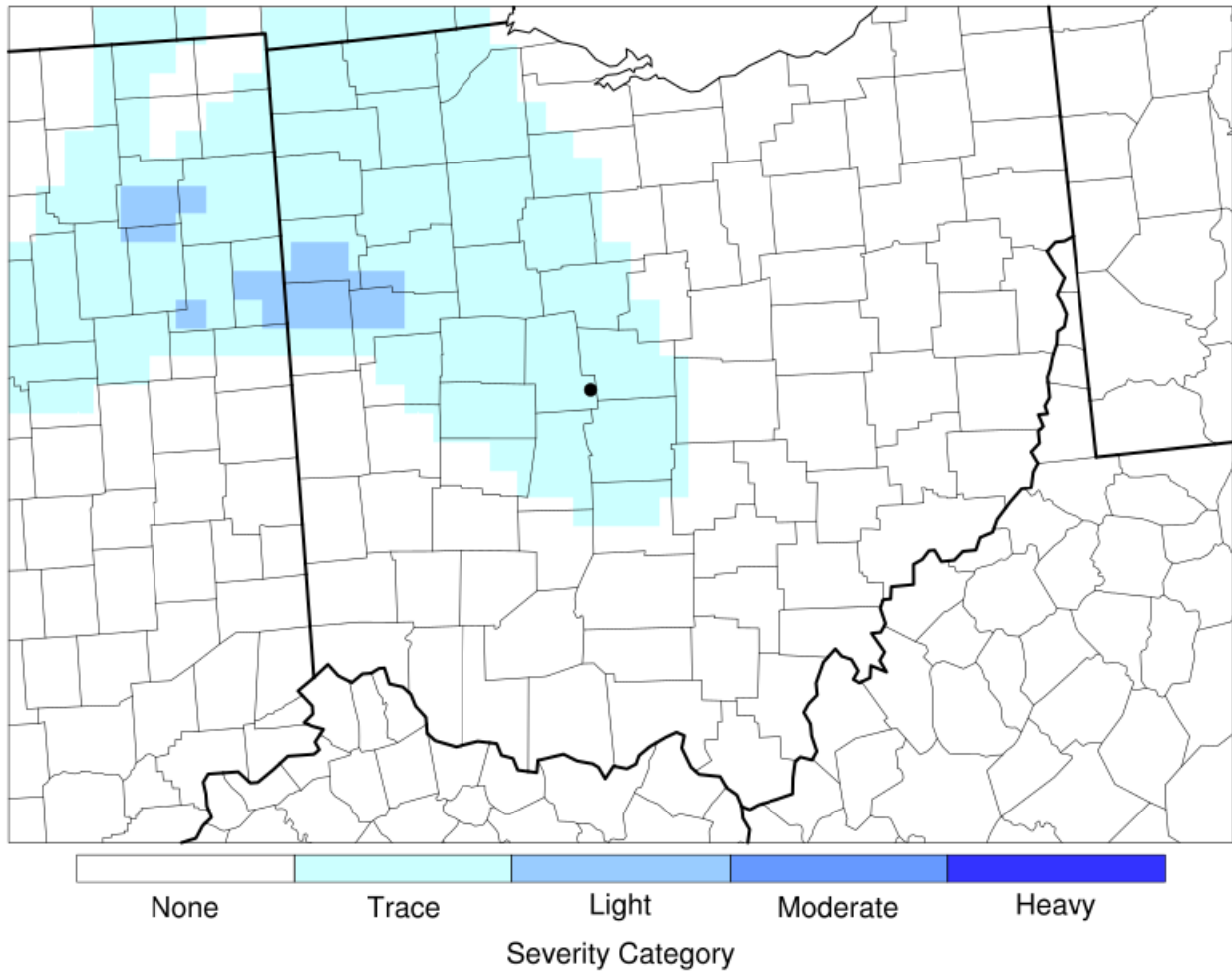


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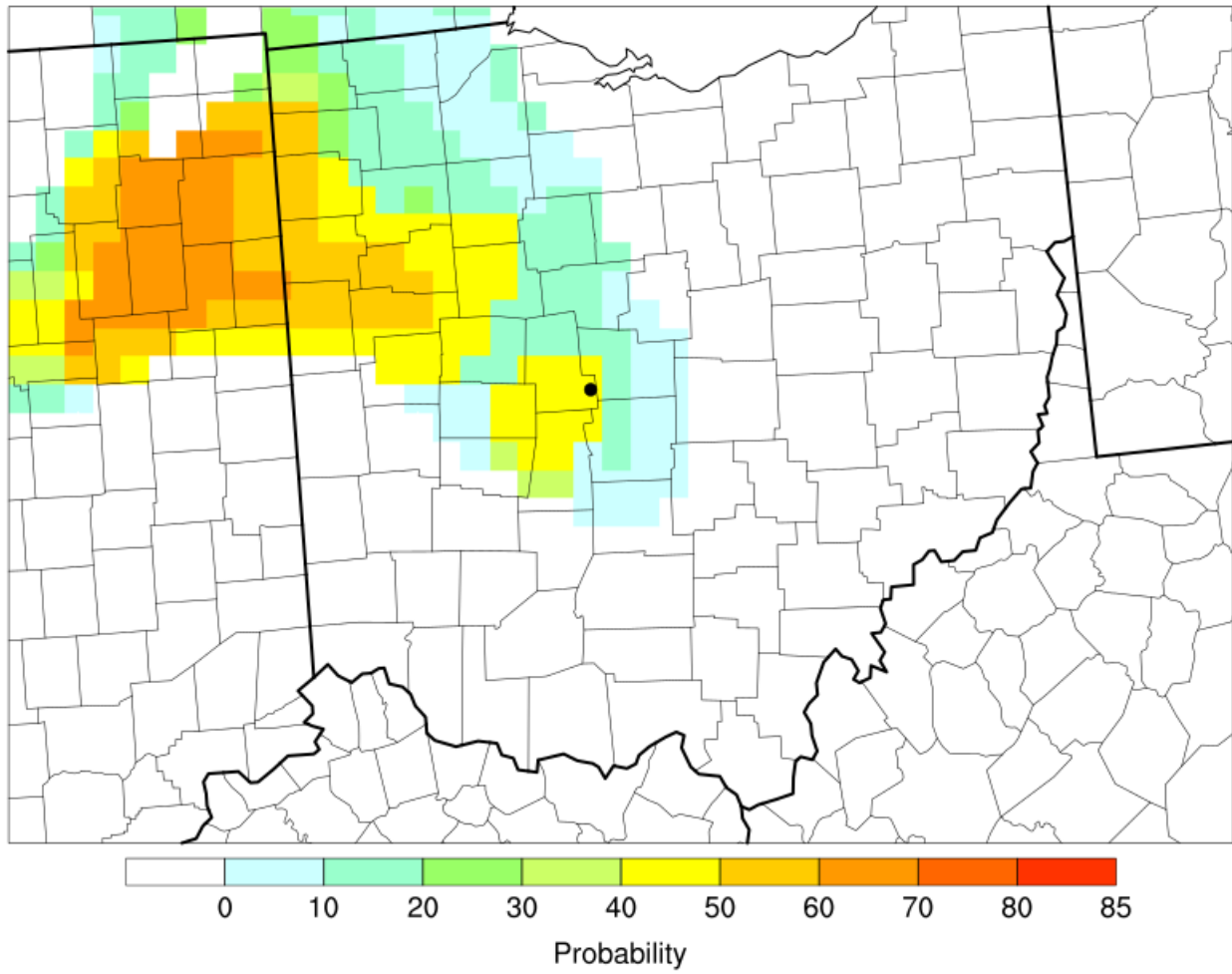
ICING SEVERITY at FL 020

02 Hour forecast valid at: 3/17/2019 2100 UTC

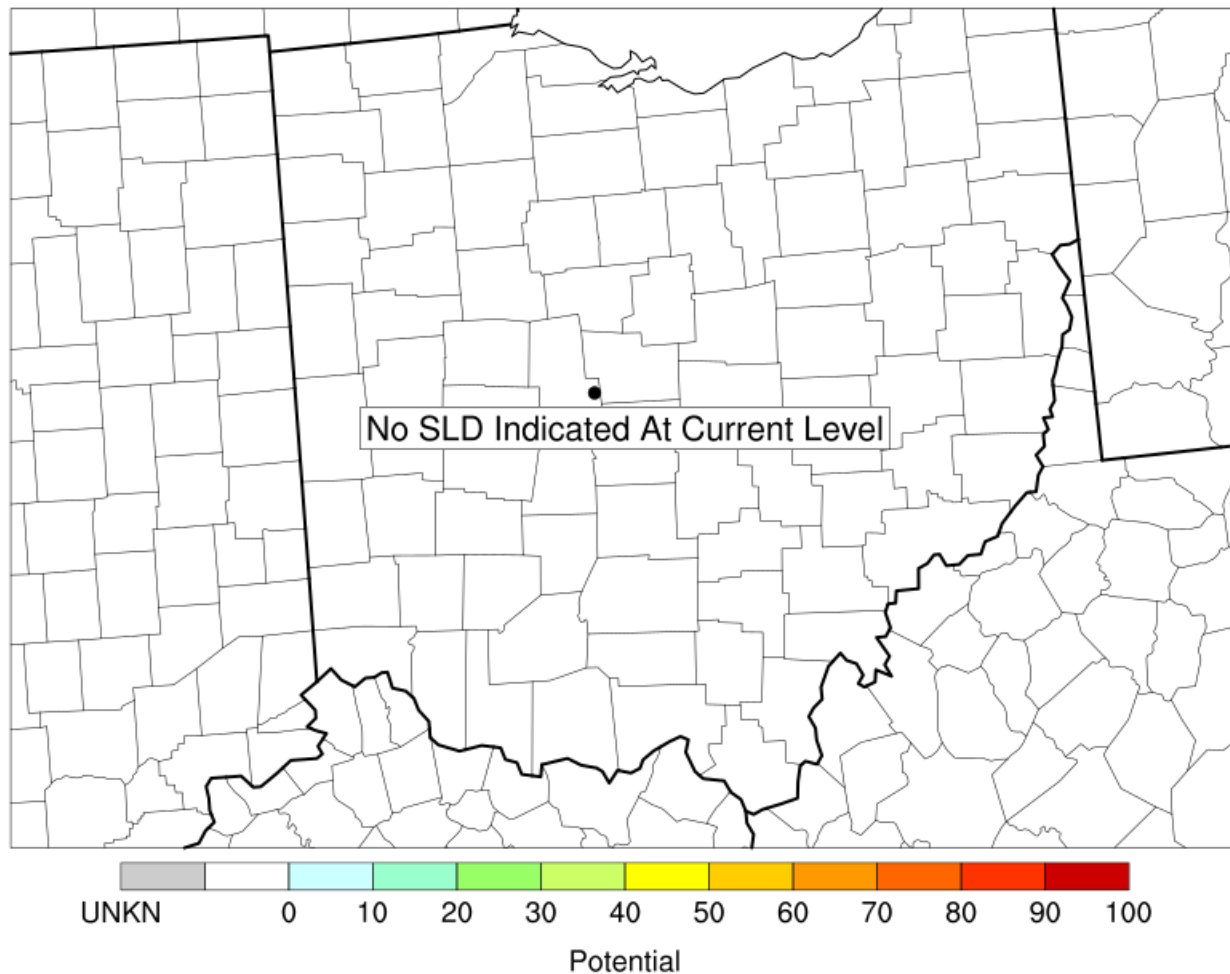


ICING PROBABILITY at FL 020

02 Hour forecast valid at: 3/17/2019 2100 UTC

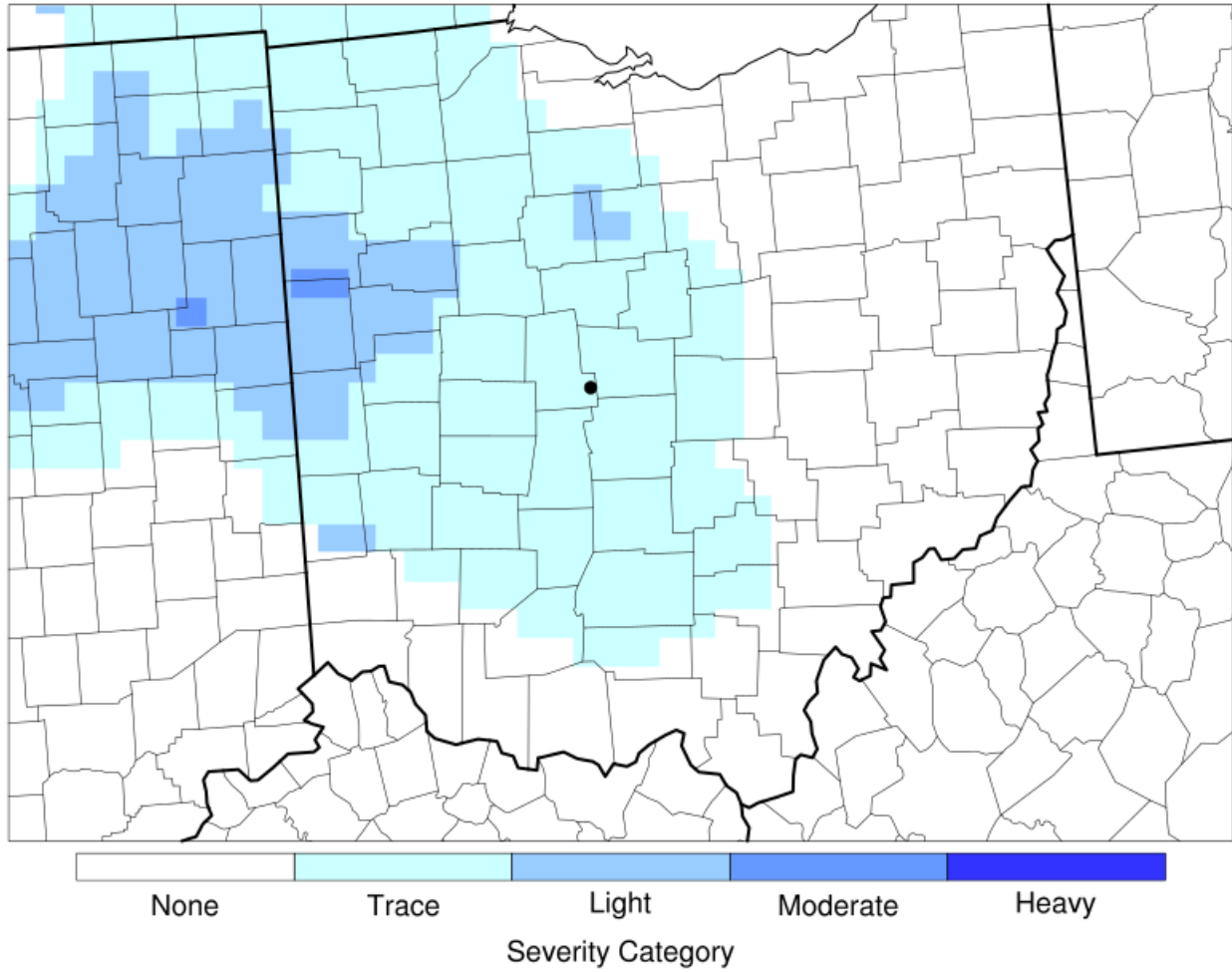


SUPERCOOLED LARGE DROP POTENTIAL at 0200Z our forecast valid at: 3/17/2019 2100 UTC



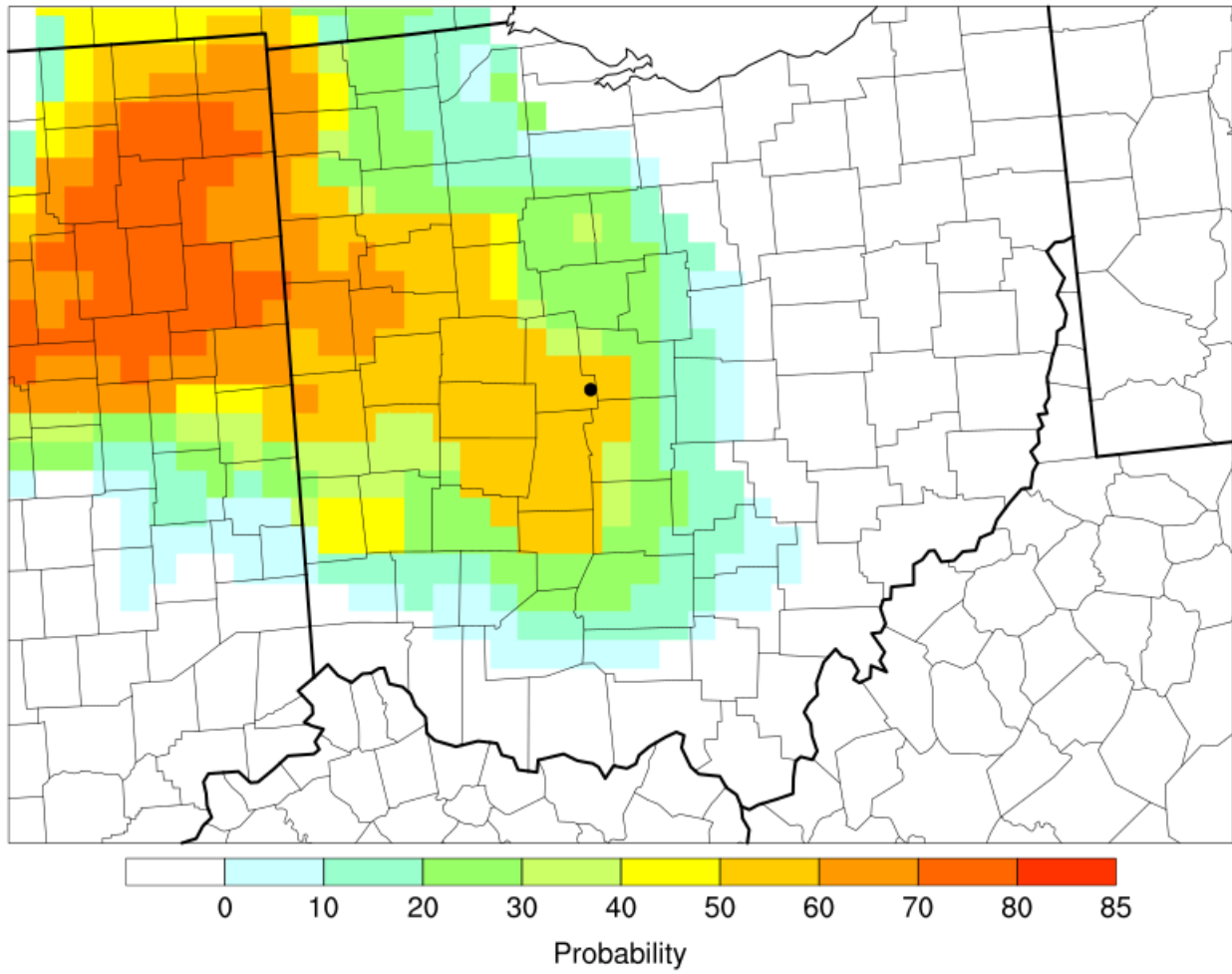
ICING SEVERITY at FL 030

02 Hour forecast valid at: 3/17/2019 2100 UTC



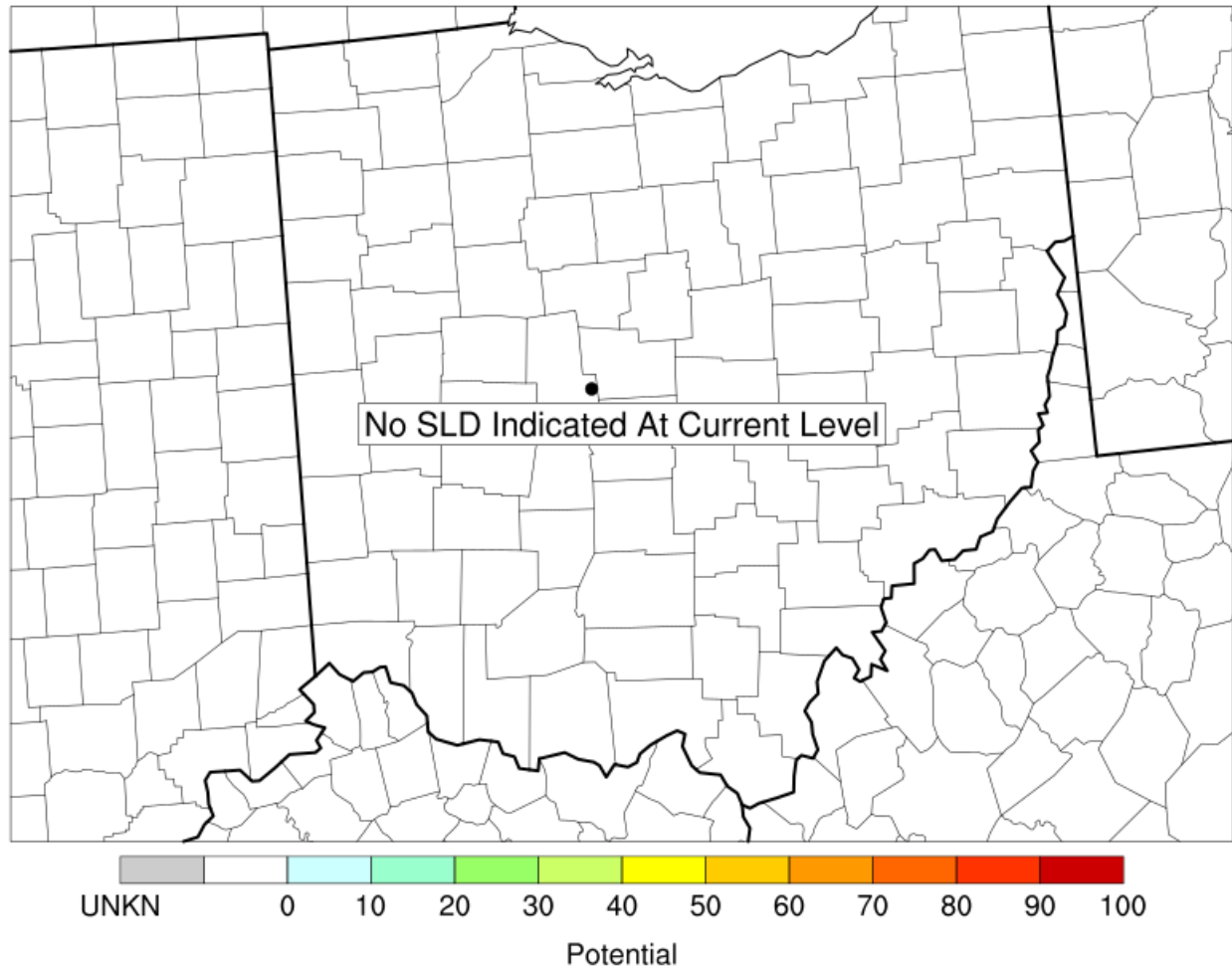
ICING PROBABILITY at FL 030

02 Hour forecast valid at: 3/17/2019 2100 UTC



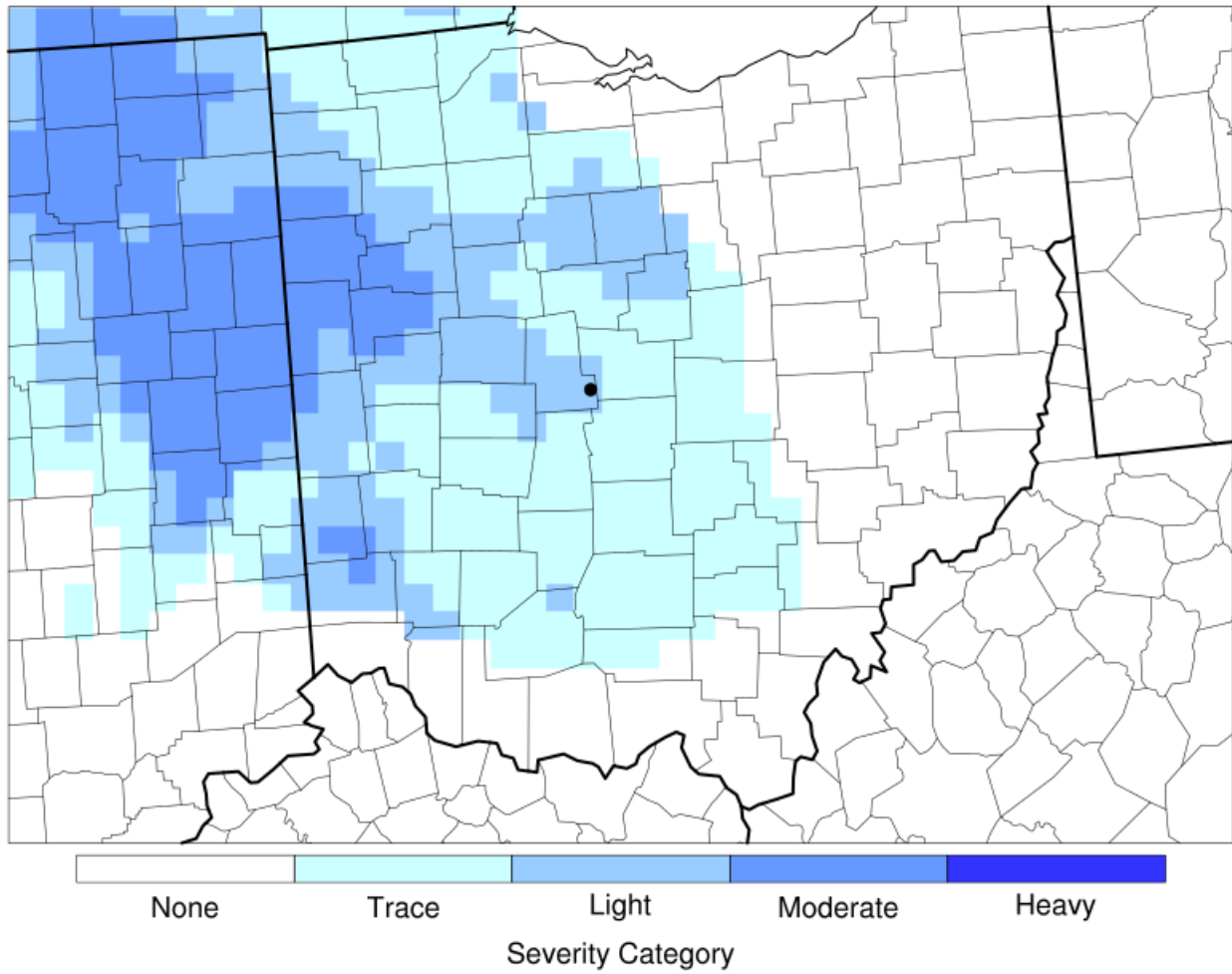


SUPERCOOLED LARGE DROP POTENTIAL at 0200Z our forecast valid at: 3/17/2019 2100 UTC



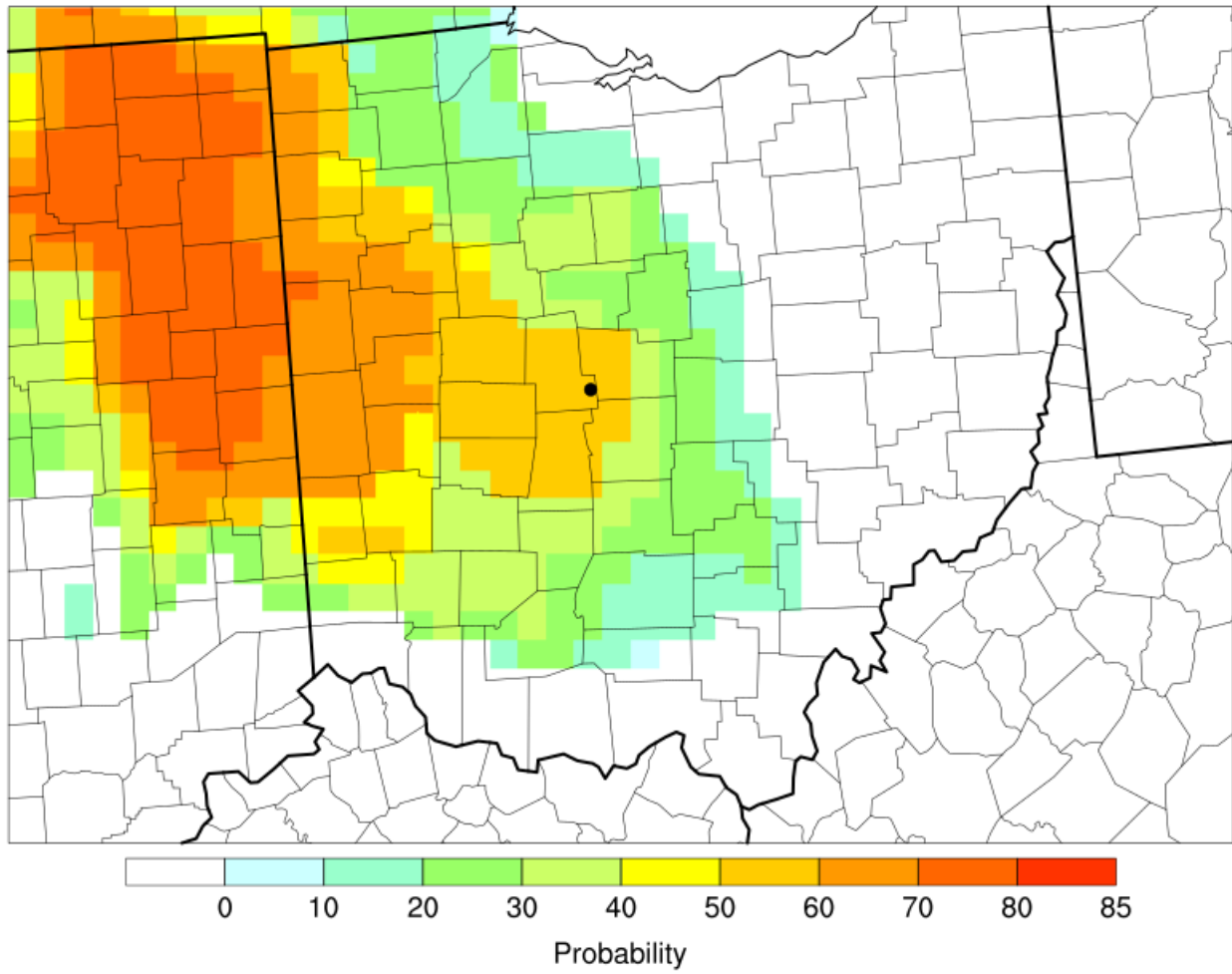
ICING SEVERITY at FL 040

02 Hour forecast valid at: 3/17/2019 2100 UTC

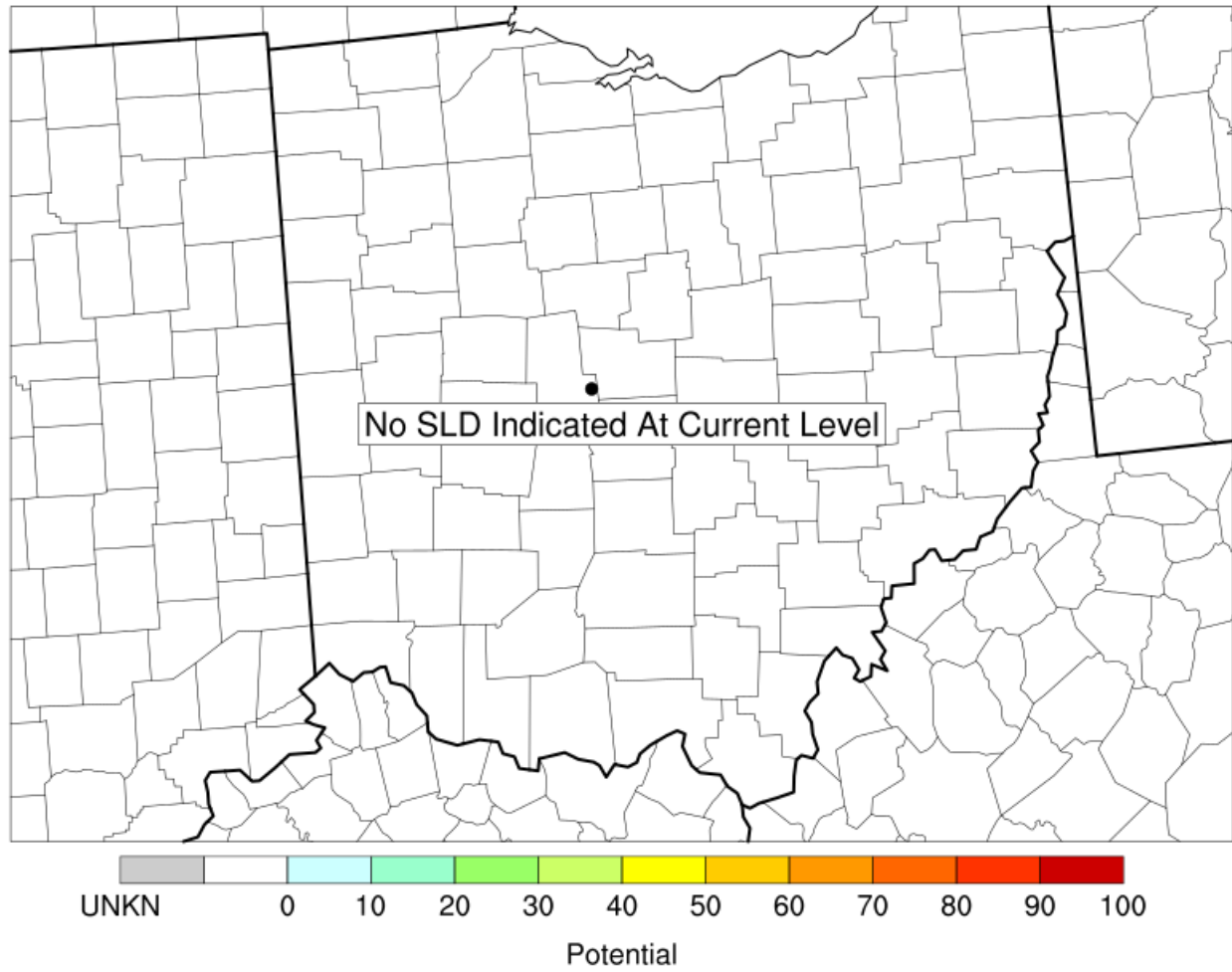


ICING PROBABILITY at FL 040

02 Hour forecast valid at: 3/17/2019 2100 UTC

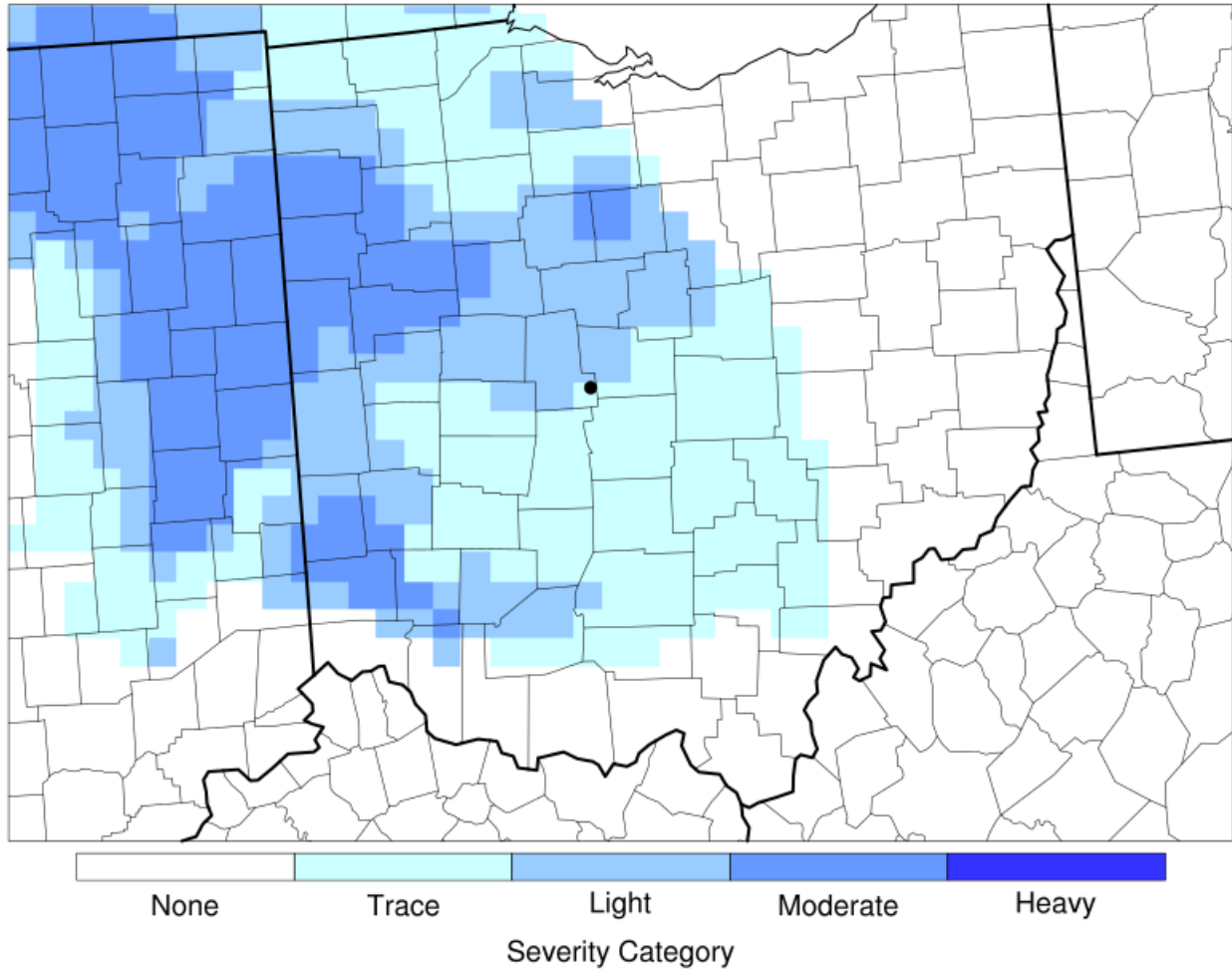


SUPERCOOLED LARGE DROP POTENTIAL at 0200 UTC our forecast valid at: 3/17/2019 2100 UTC



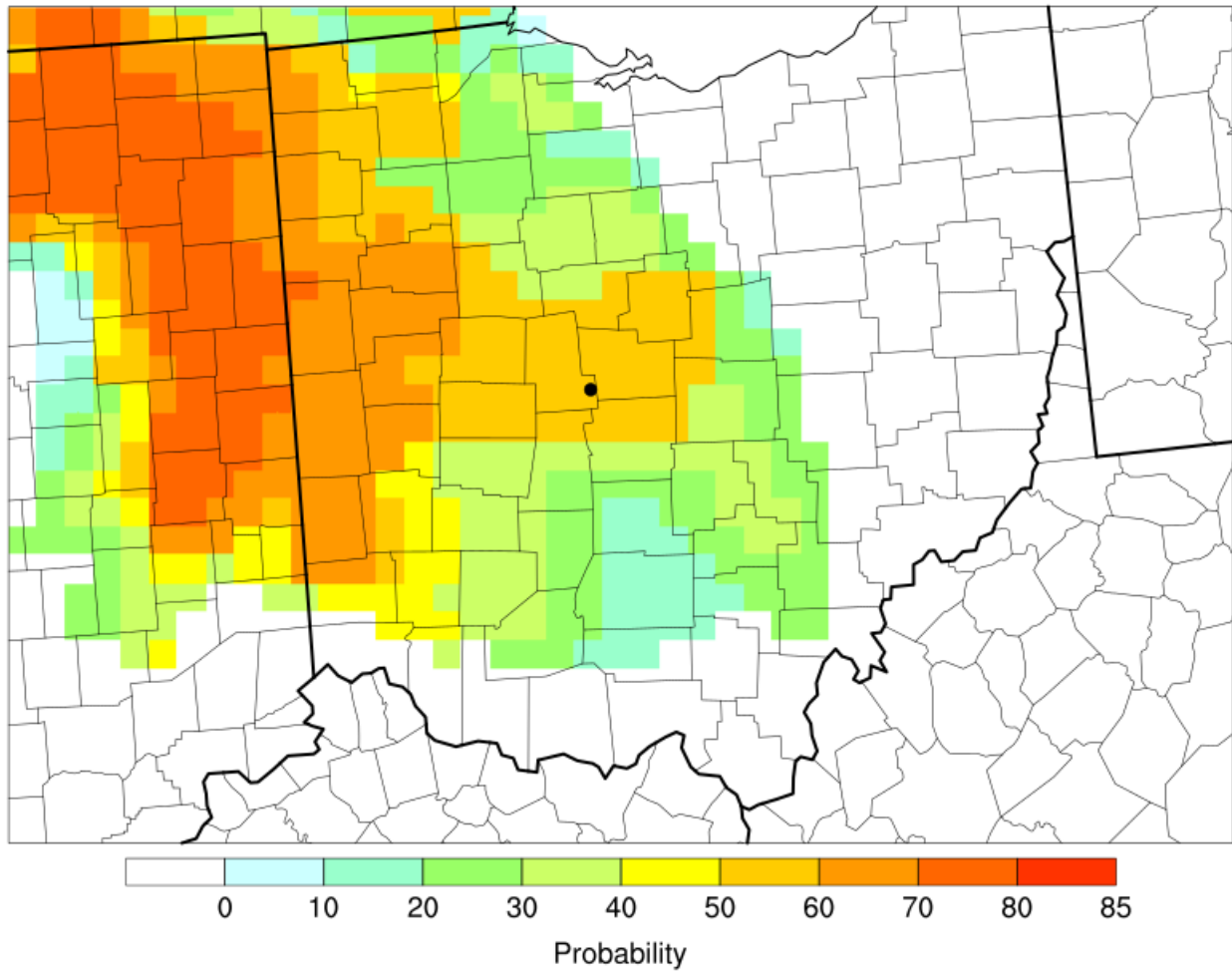
ICING SEVERITY at FL 050

02 Hour forecast valid at: 3/17/2019 2100 UTC



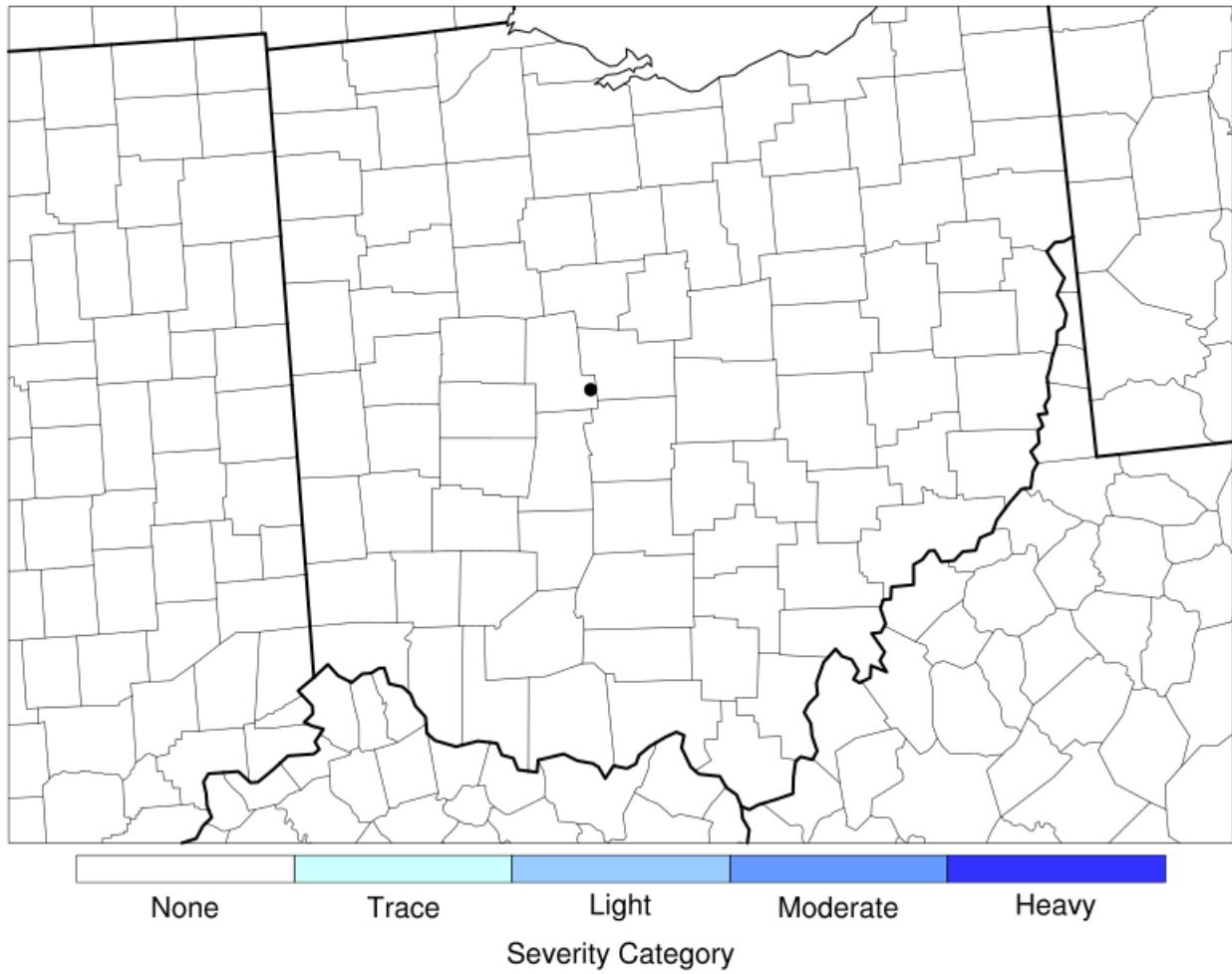
ICING PROBABILITY at FL 050

02 Hour forecast valid at: 3/17/2019 2100 UTC



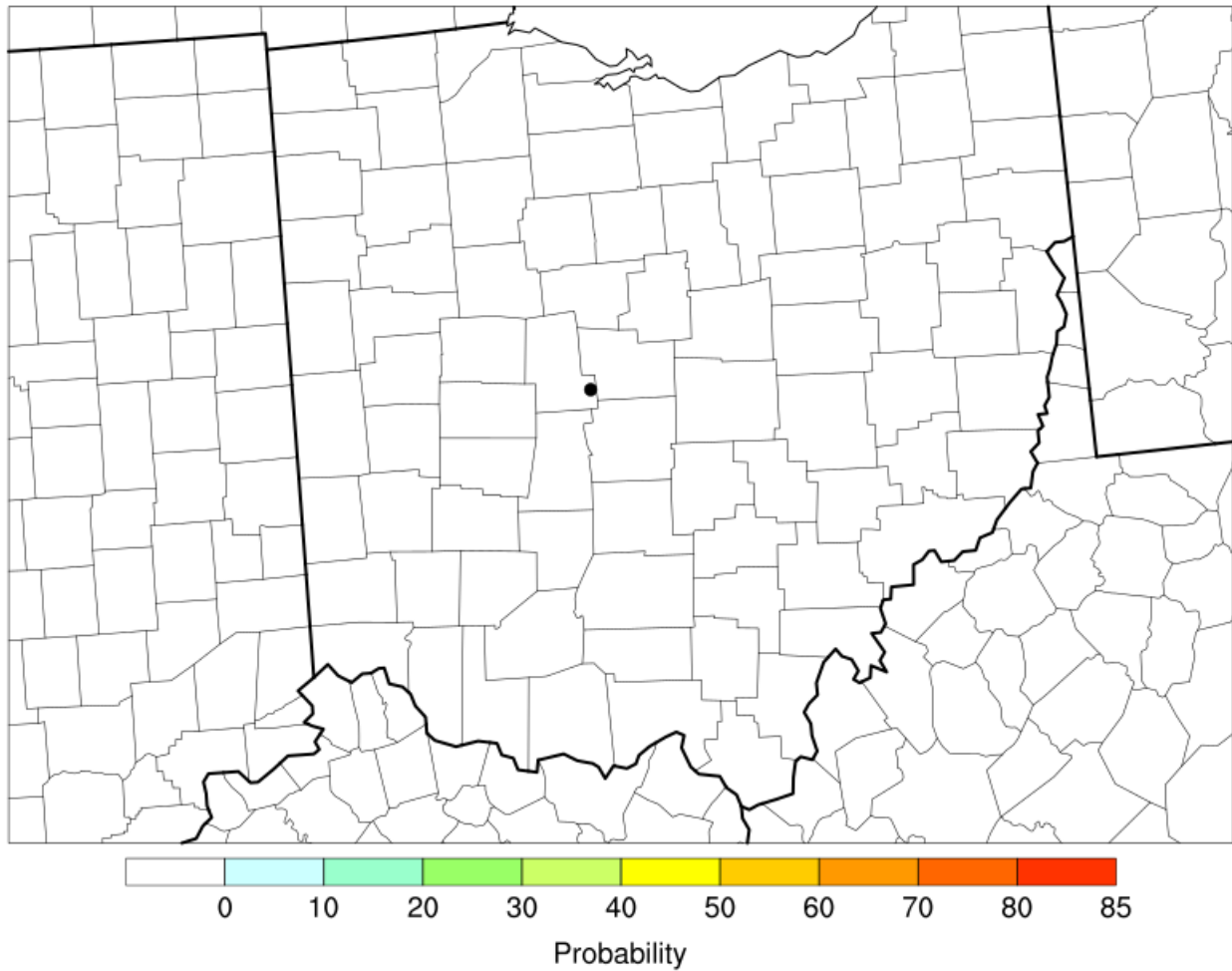
ICING SEVERITY at FL 010

03 Hour forecast valid at: 3/17/2019 2100 UTC



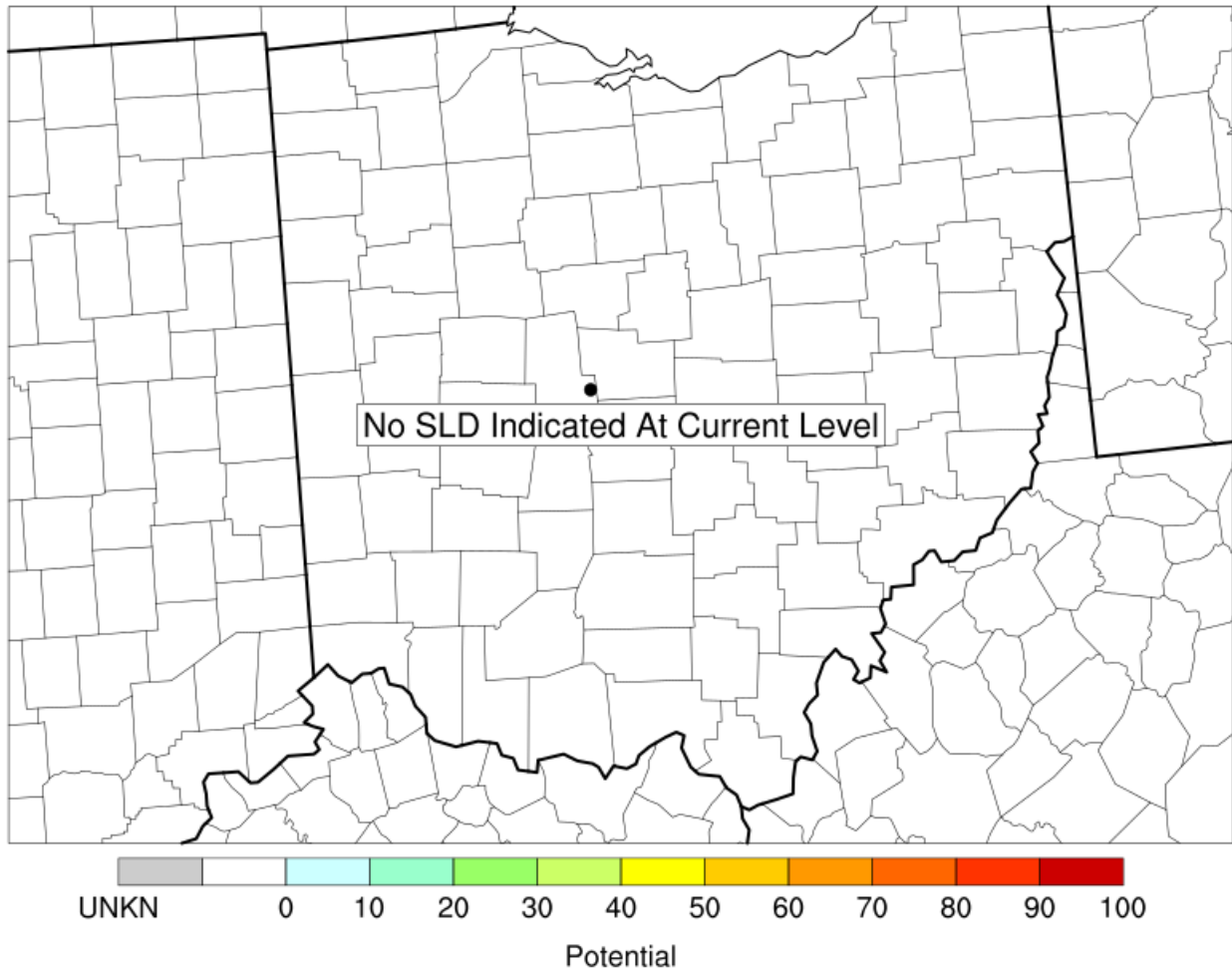
ICING PROBABILITY at FL 010

03 Hour forecast valid at: 3/17/2019 2100 UTC



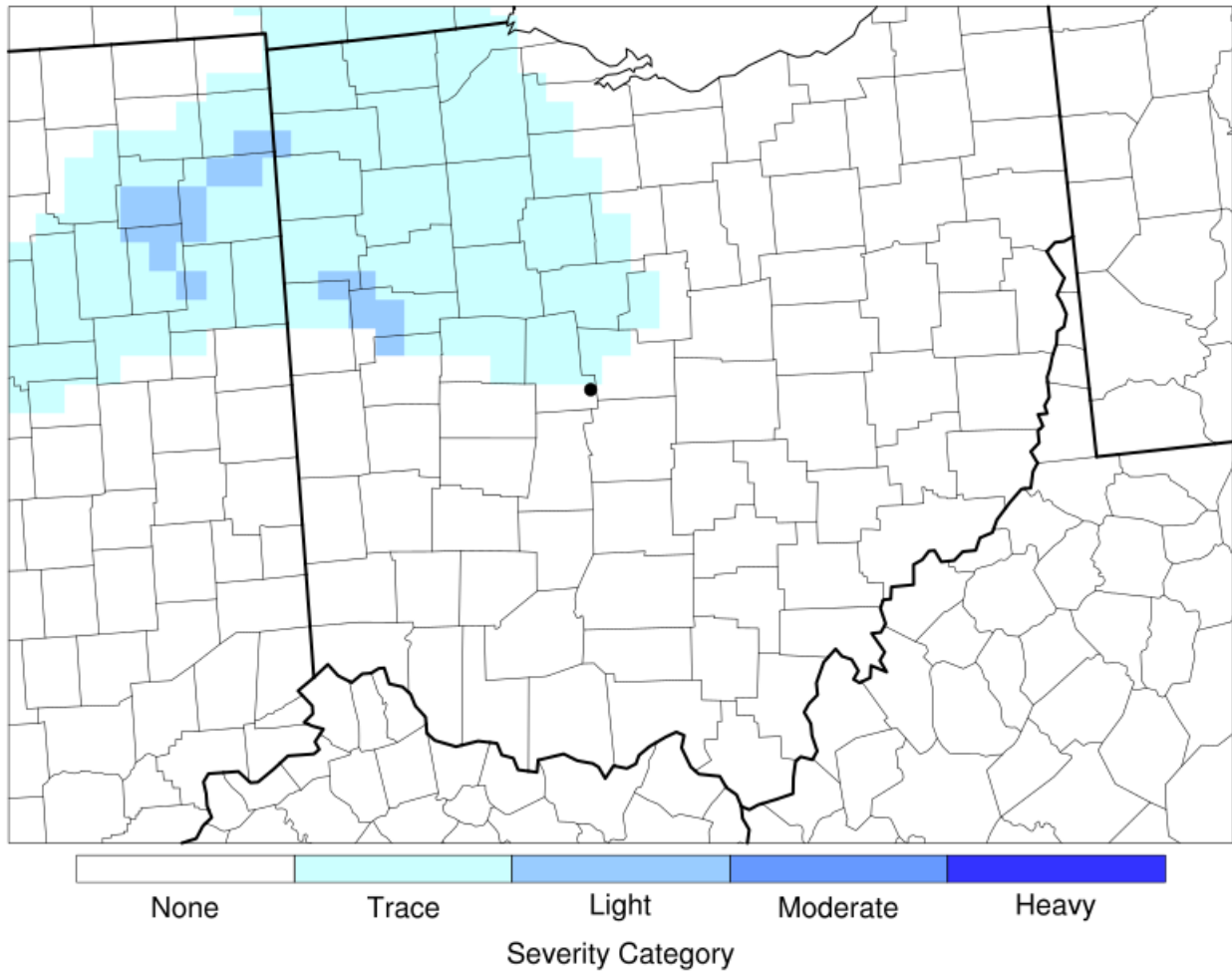


SUPERCOOLED LARGE DROP POTENTIAL at 030100r forecast valid at: 3/17/2019 2100 UTC



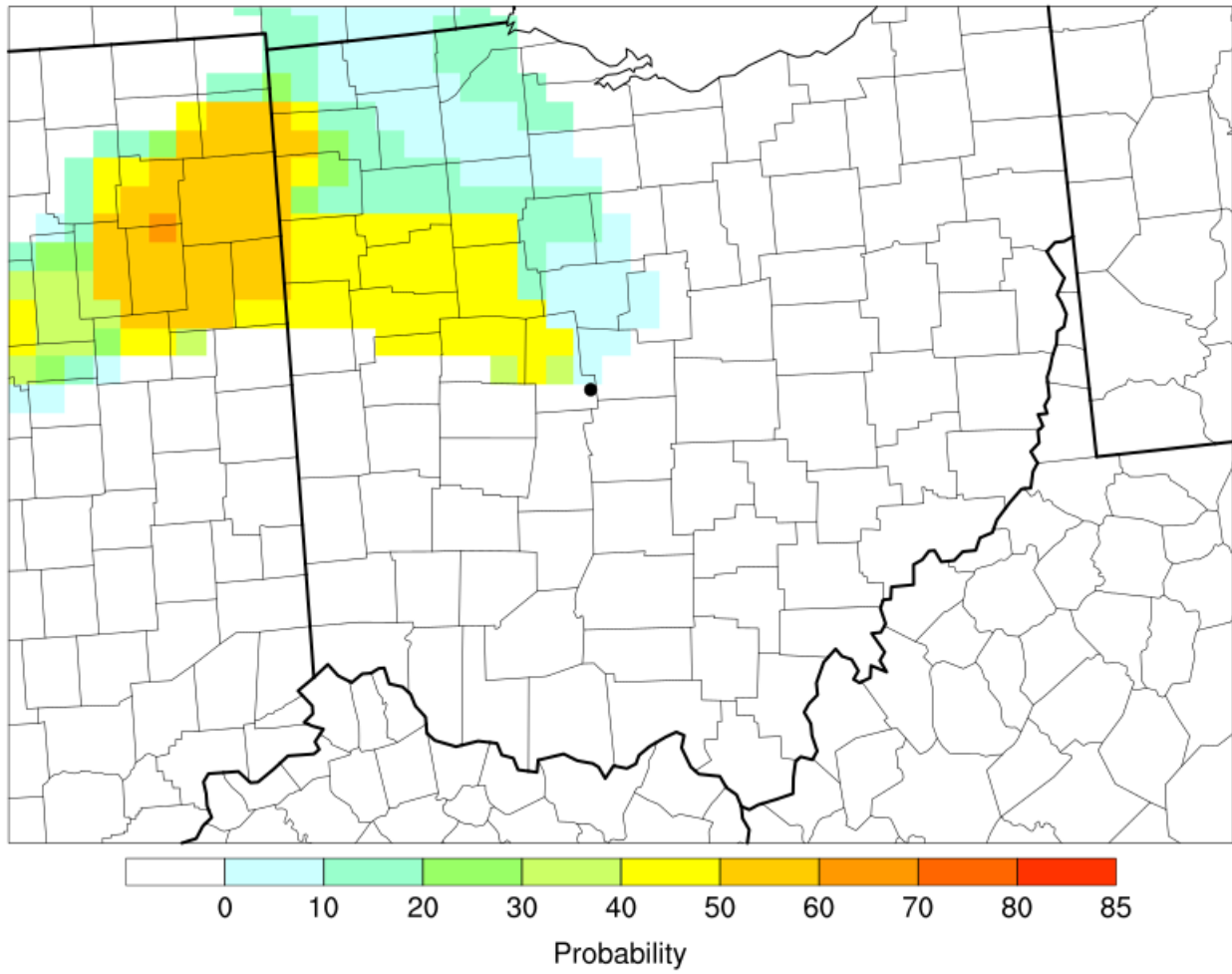
ICING SEVERITY at FL 020

03 Hour forecast valid at: 3/17/2019 2100 UTC

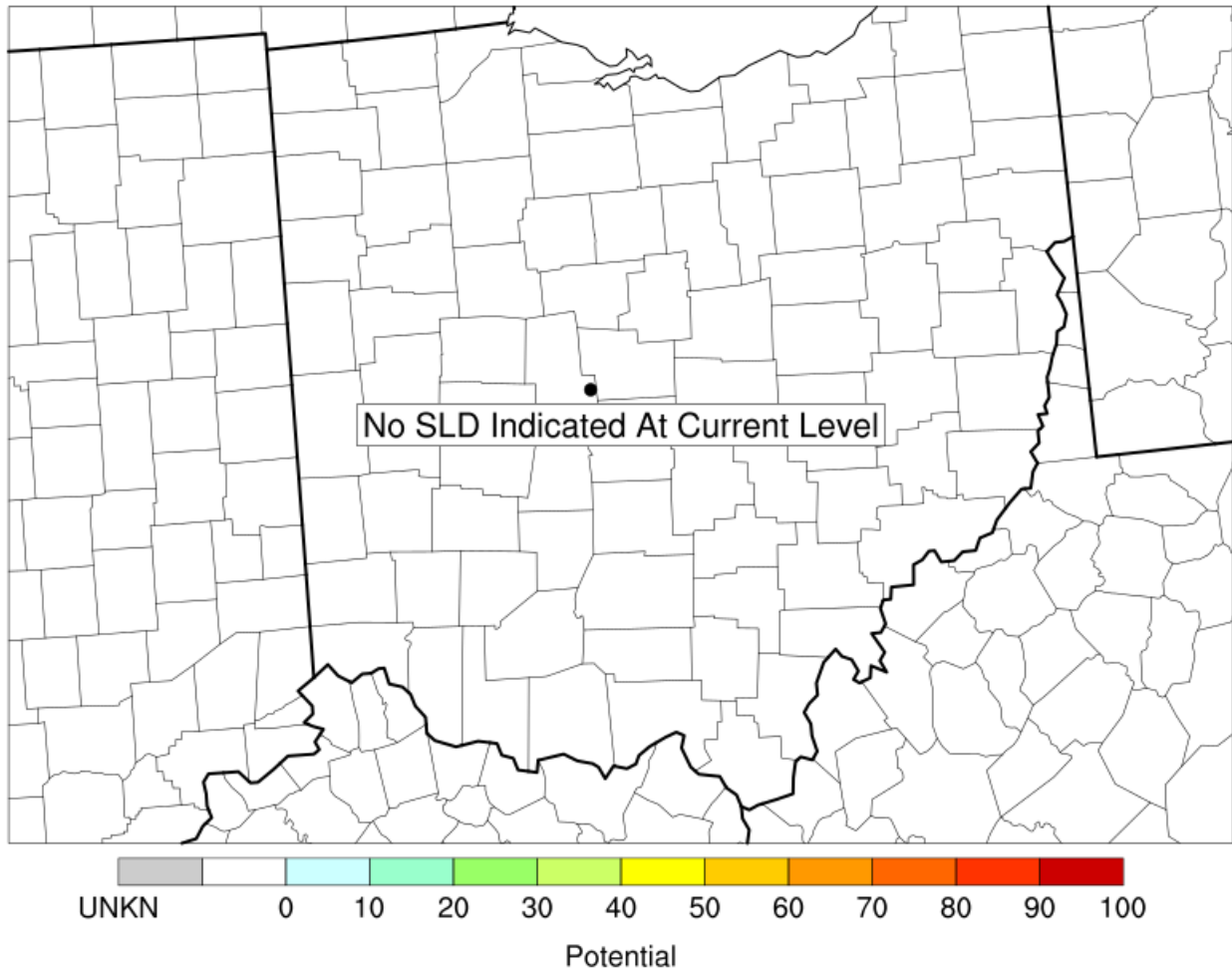


ICING PROBABILITY at FL 020

03 Hour forecast valid at: 3/17/2019 2100 UTC

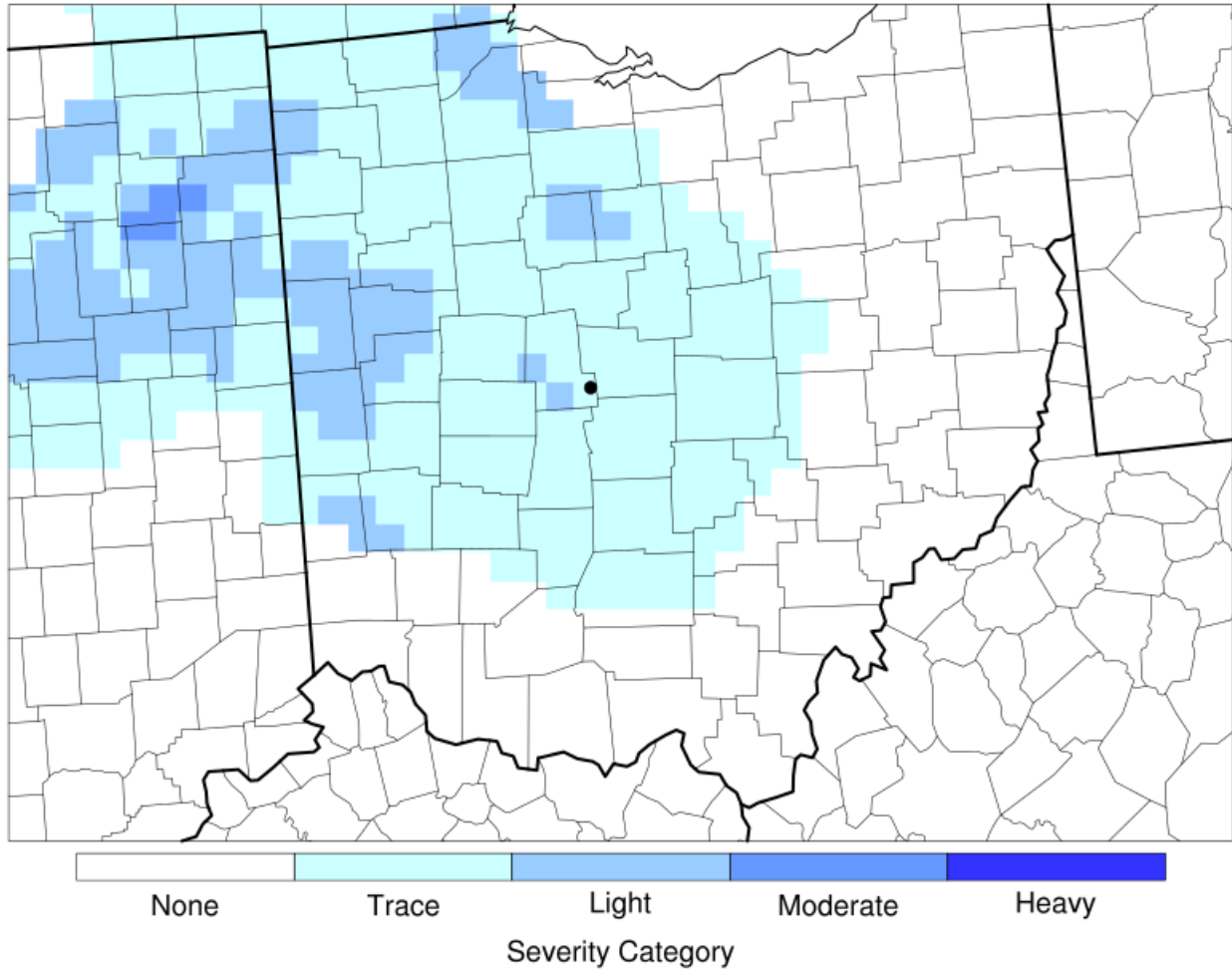


SUPERCOOLED LARGE DROP POTENTIAL at 0300Z our forecast valid at: 3/17/2019 2100 UTC



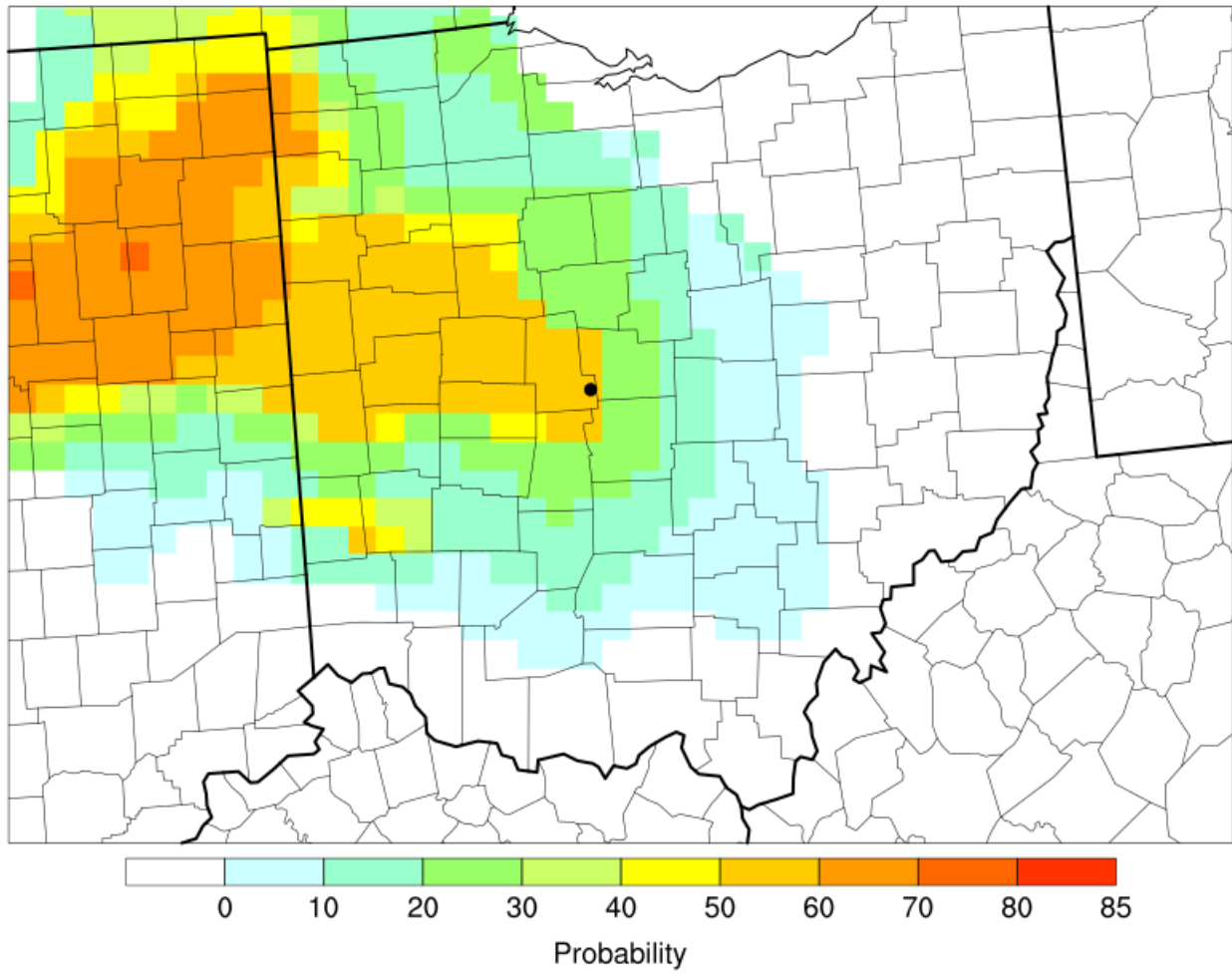
ICING SEVERITY at FL 030

03 Hour forecast valid at: 3/17/2019 2100 UTC

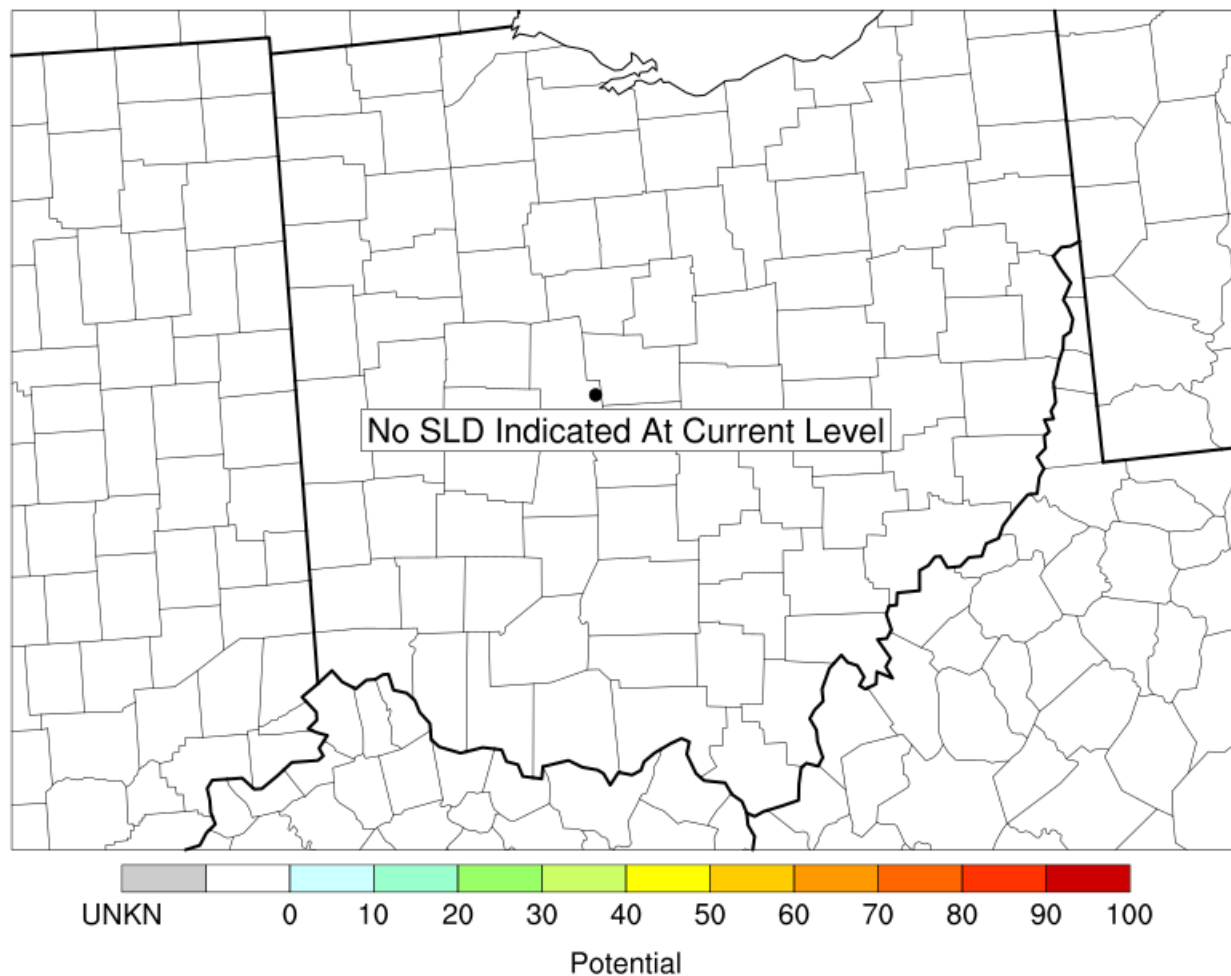


ICING PROBABILITY at FL 030

03 Hour forecast valid at: 3/17/2019 2100 UTC

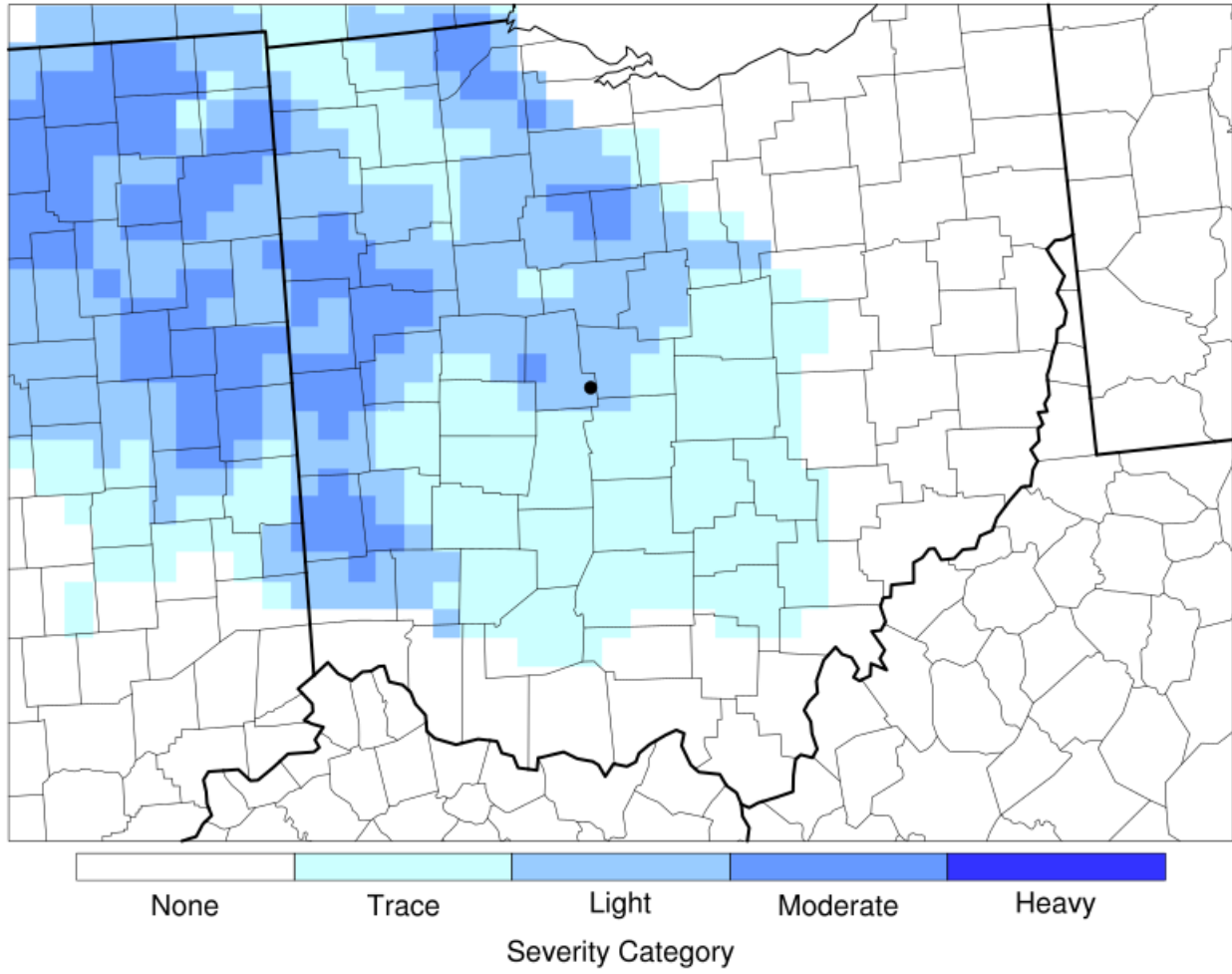


SUPERCOOLED LARGE DROP POTENTIAL at 0300Z our forecast valid at: 3/17/2019 2100 UTC



ICING SEVERITY at FL 040

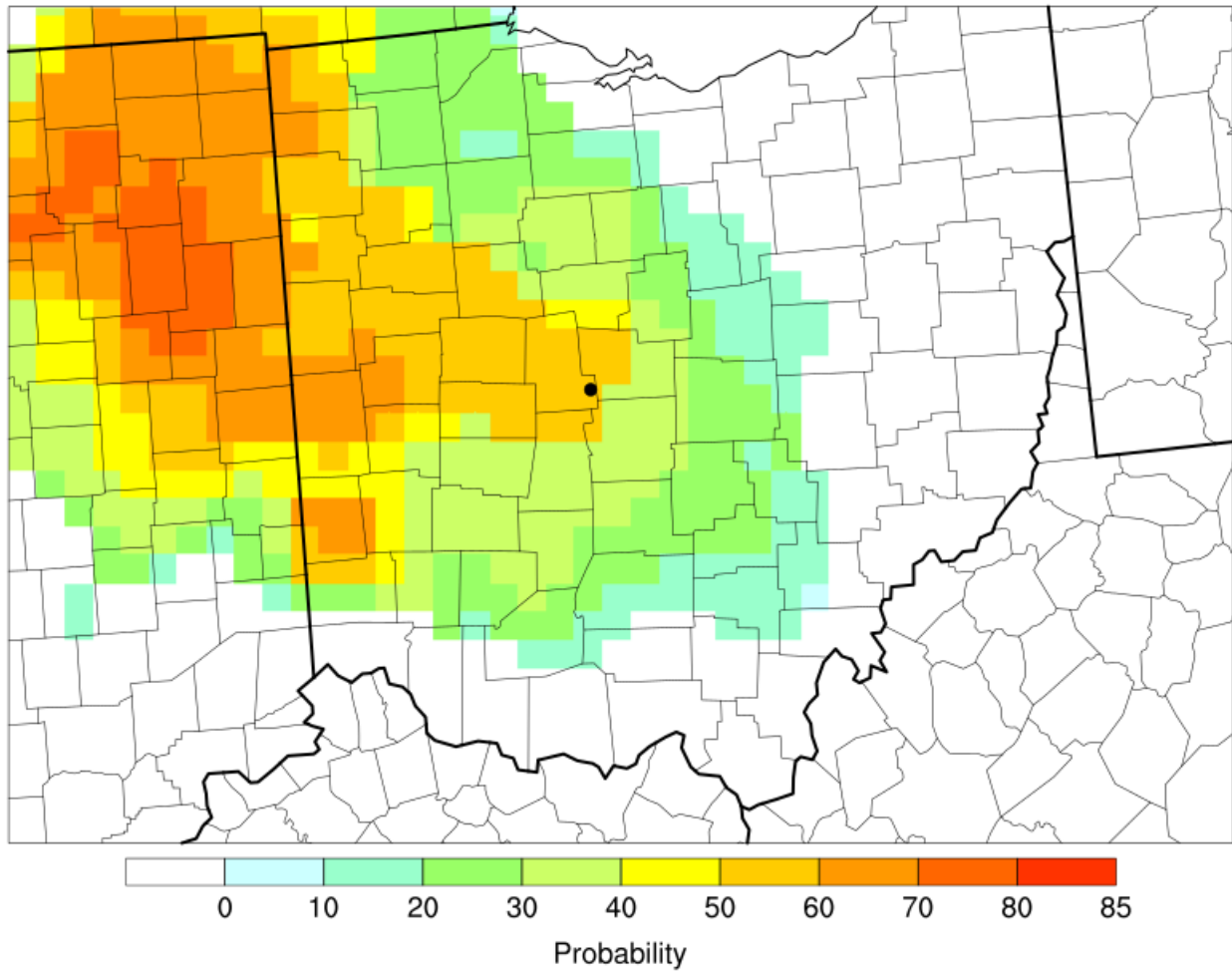
03 Hour forecast valid at: 3/17/2019 2100 UTC



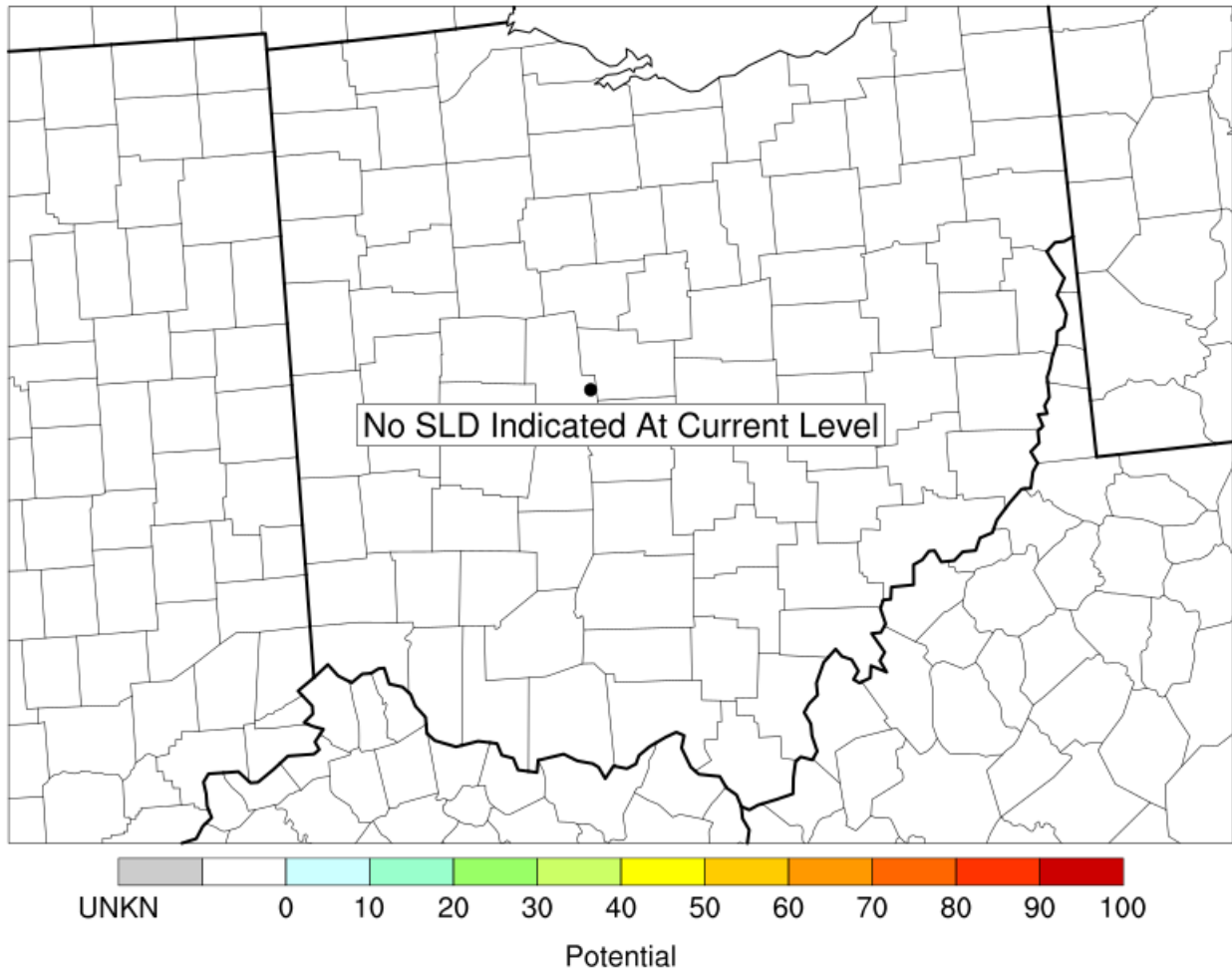


ICING PROBABILITY at FL 040

03 Hour forecast valid at: 3/17/2019 2100 UTC

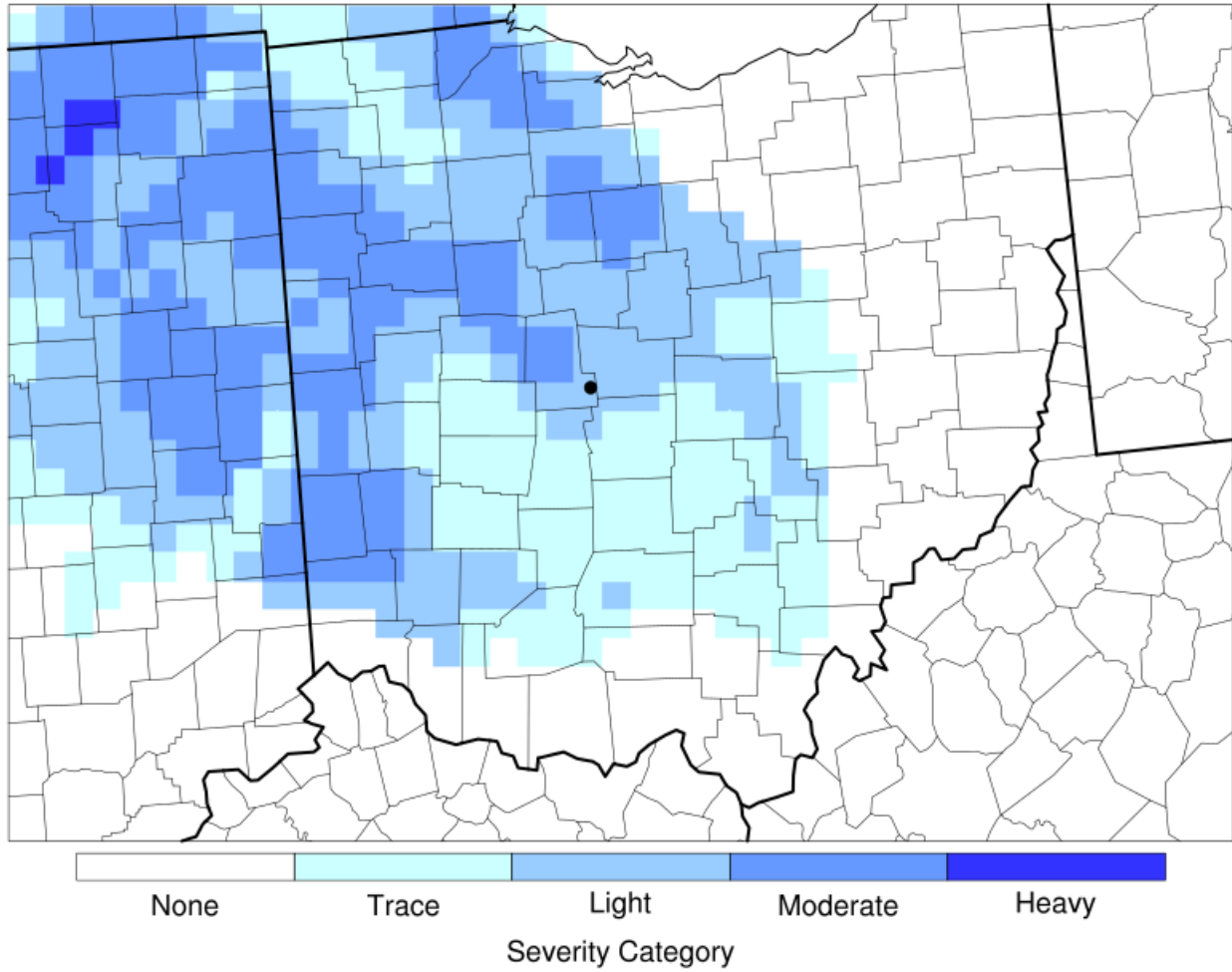


SUPERCOOLED LARGE DROP POTENTIAL at 0300 UTC our forecast valid at: 3/17/2019 2100 UTC



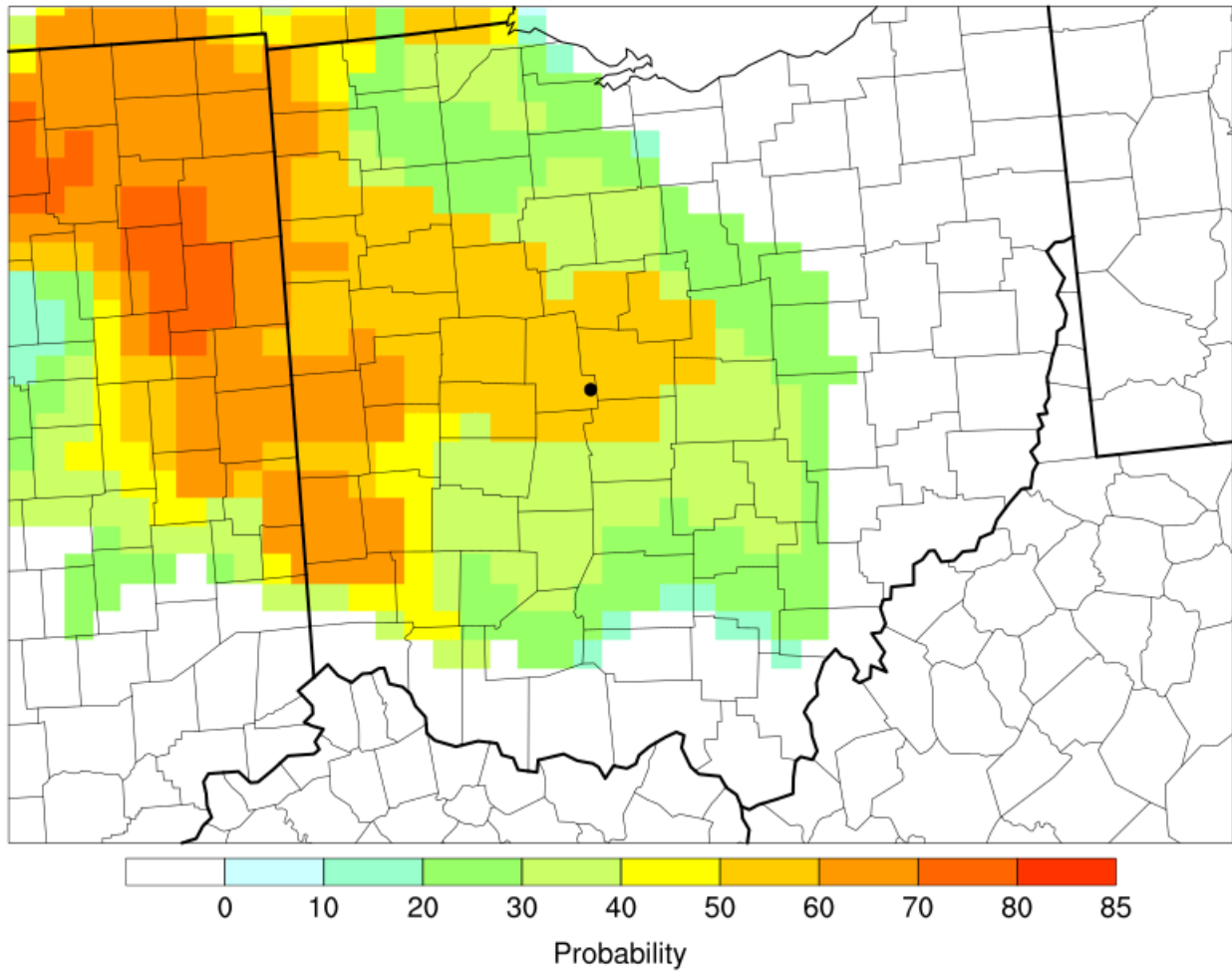
ICING SEVERITY at FL 050

03 Hour forecast valid at: 3/17/2019 2100 UTC



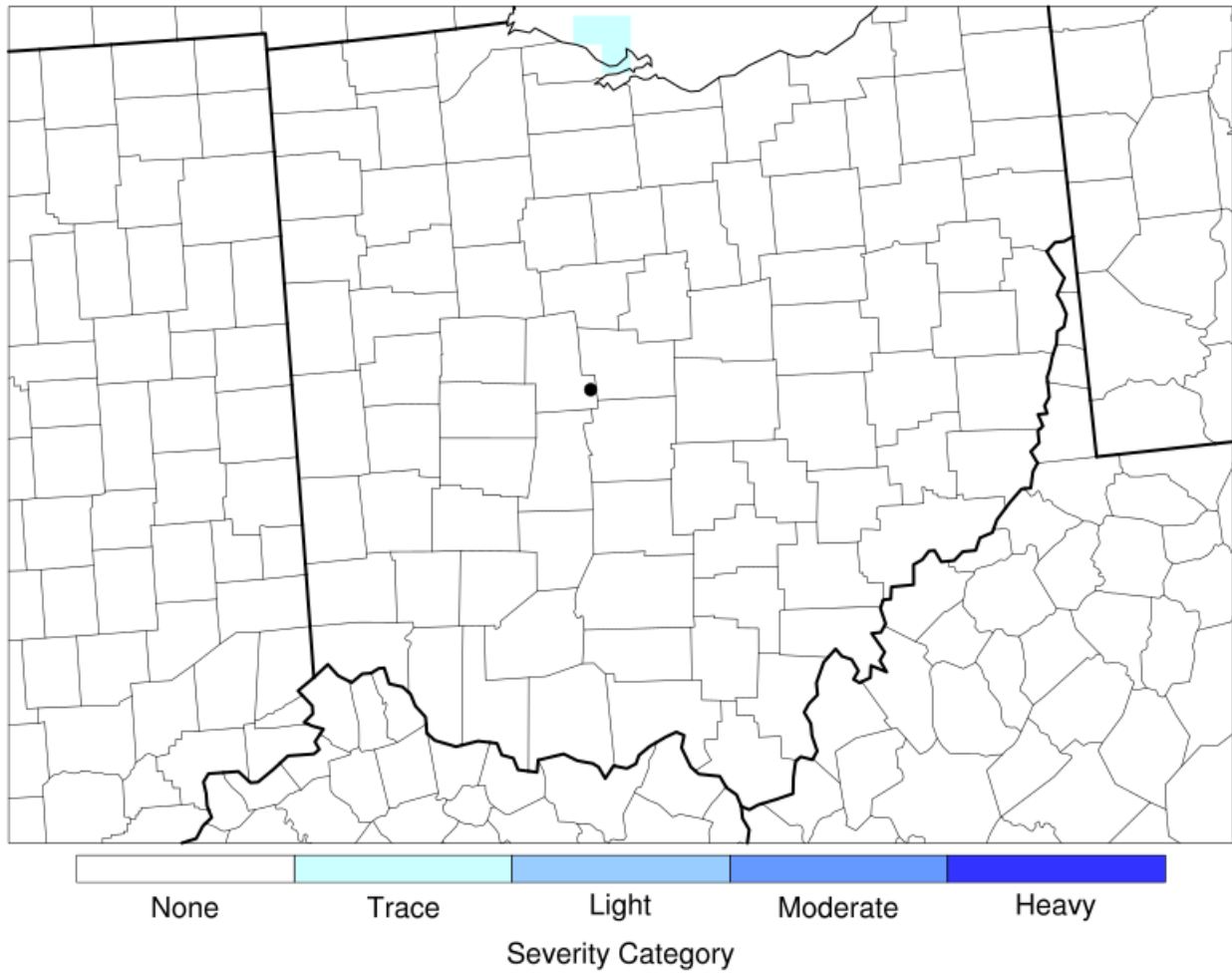
ICING PROBABILITY at FL 050

03 Hour forecast valid at: 3/17/2019 2100 UTC



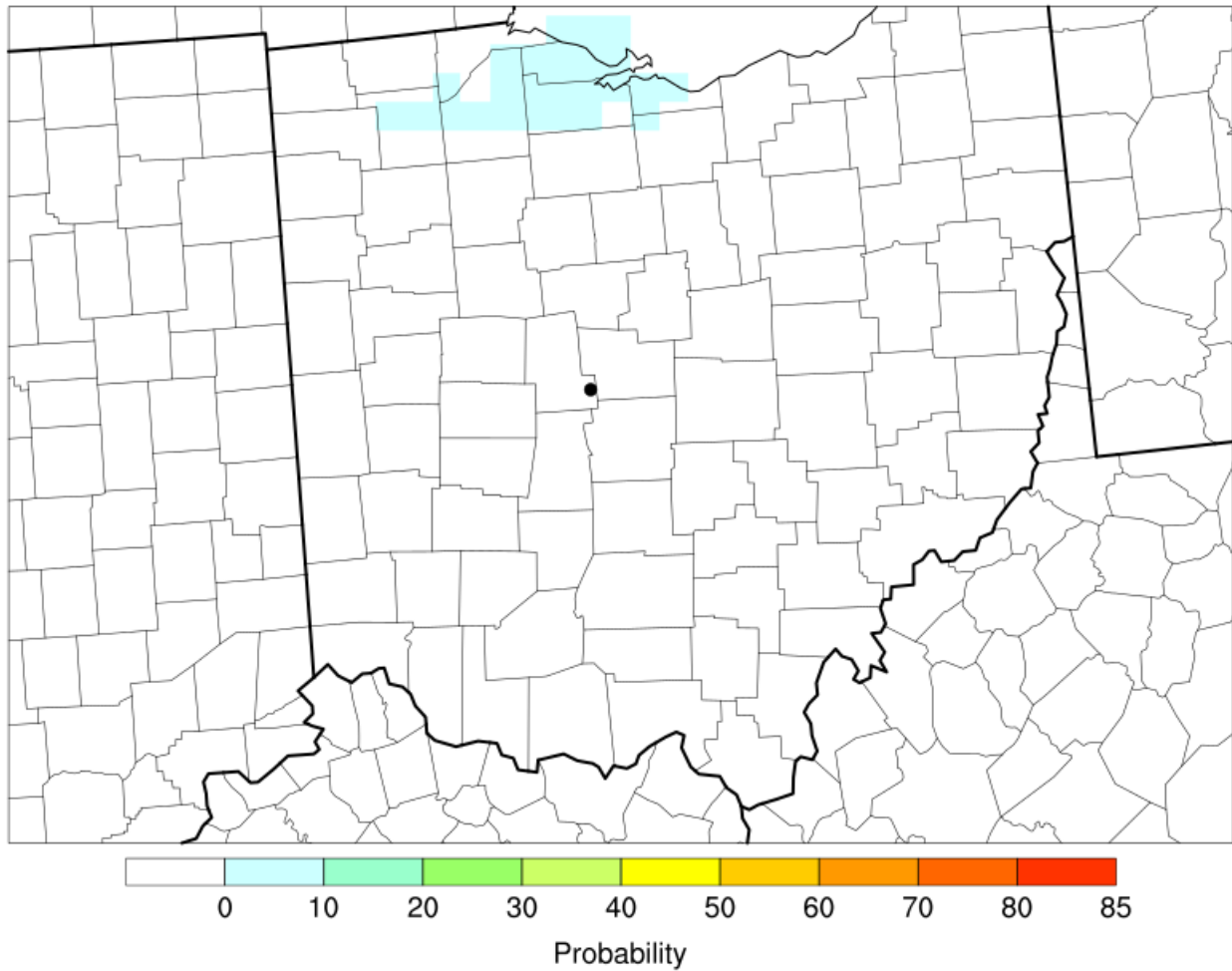
ICING SEVERITY at FL 010

01 Hour forecast valid at: 3/17/2019 2200 UTC

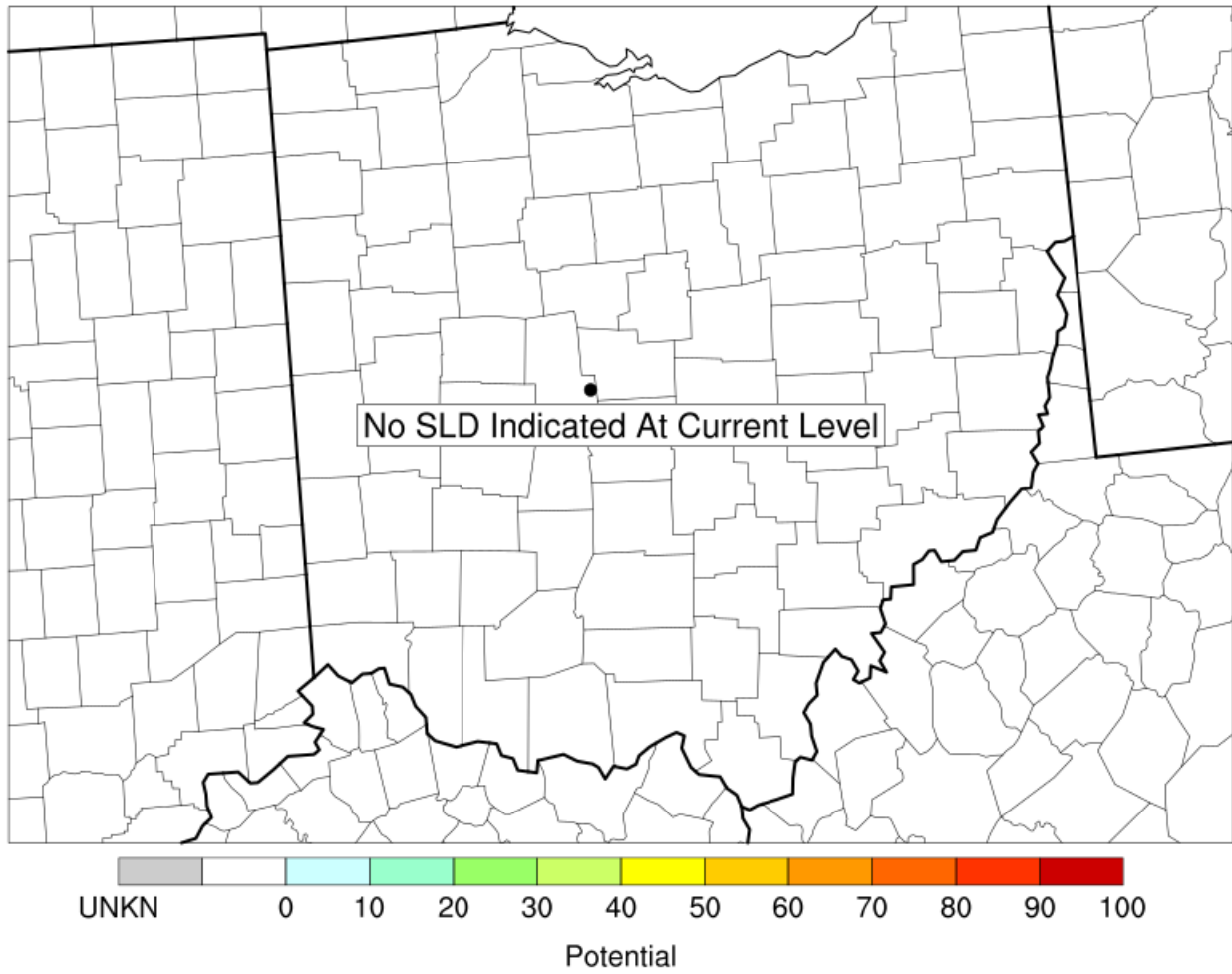


ICING PROBABILITY at FL 010

01 Hour forecast valid at: 3/17/2019 2200 UTC

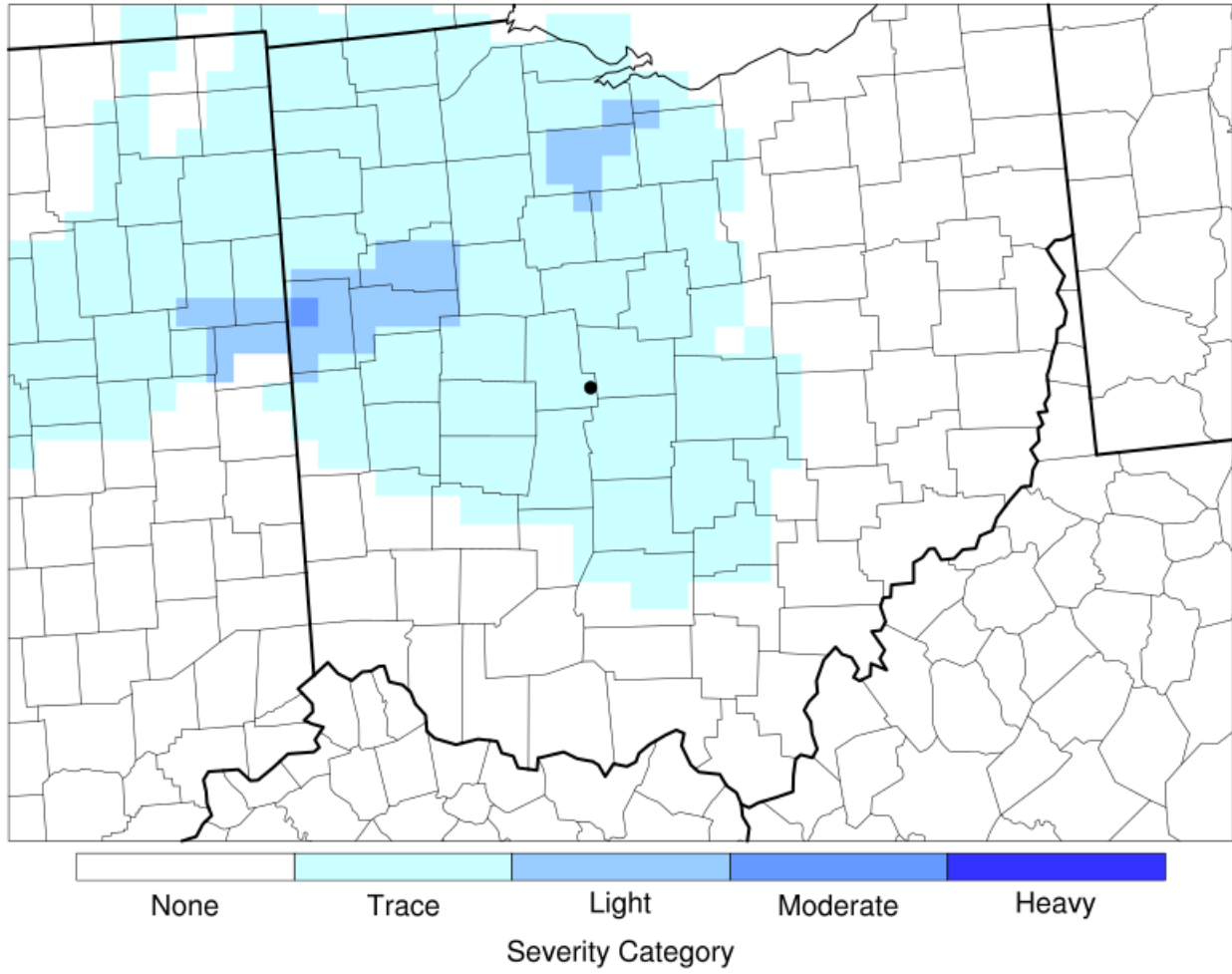


SUPERCOOLED LARGE DROP POTENTIAL at 1010hr forecast valid at: 3/17/2019 2200 UTC



ICING SEVERITY at FL 020

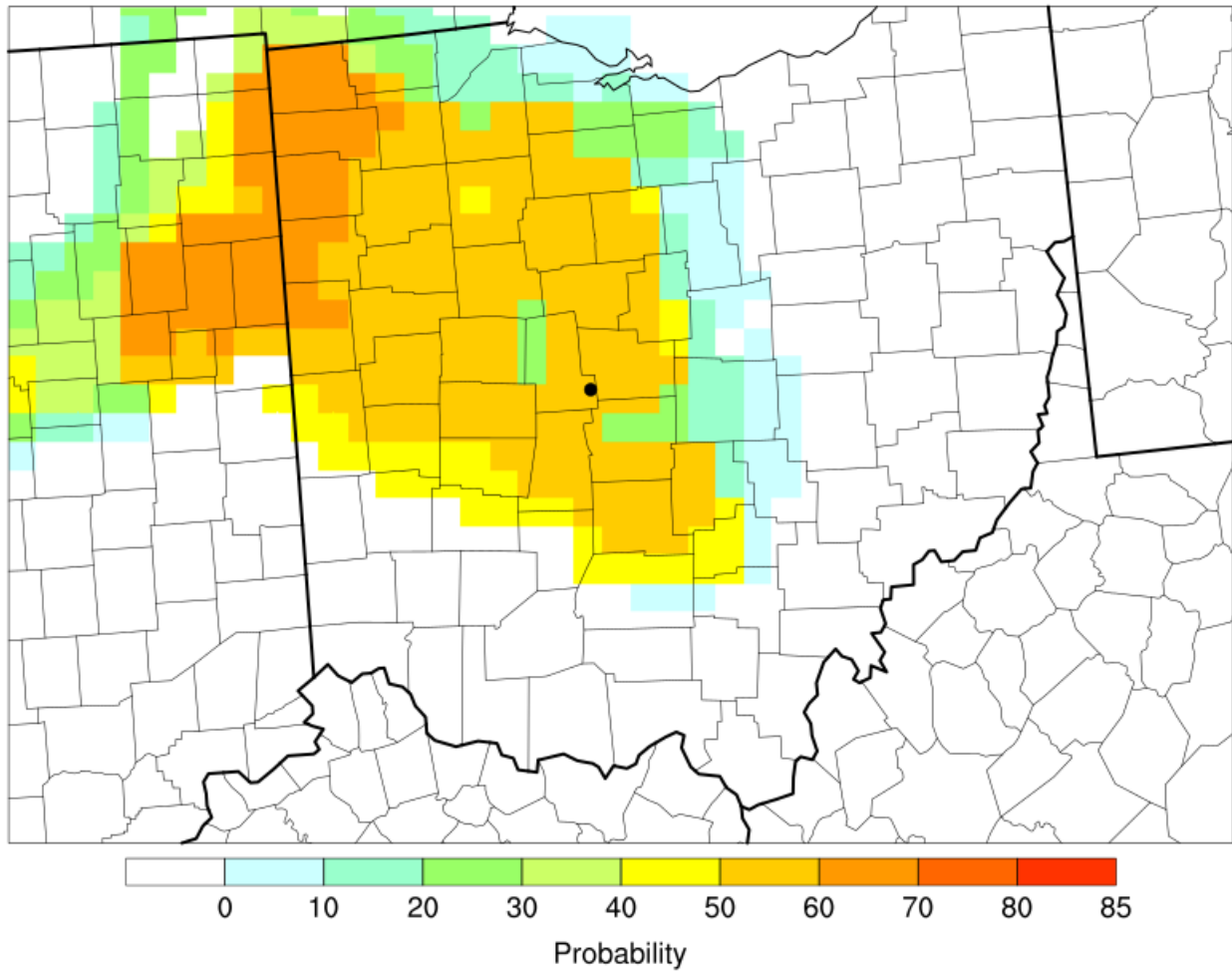
01 Hour forecast valid at: 3/17/2019 2200 UTC



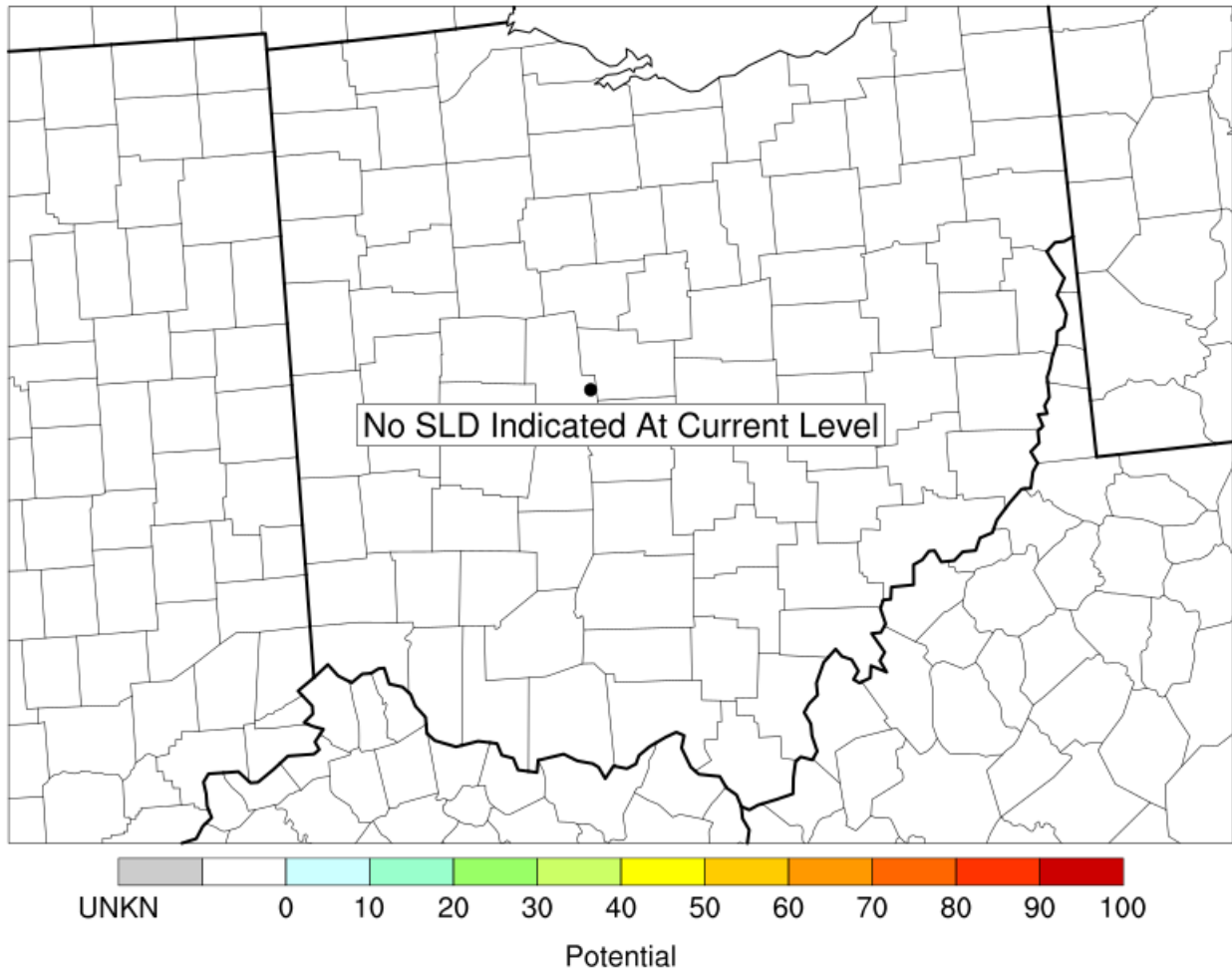


ICING PROBABILITY at FL 020

01 Hour forecast valid at: 3/17/2019 2200 UTC

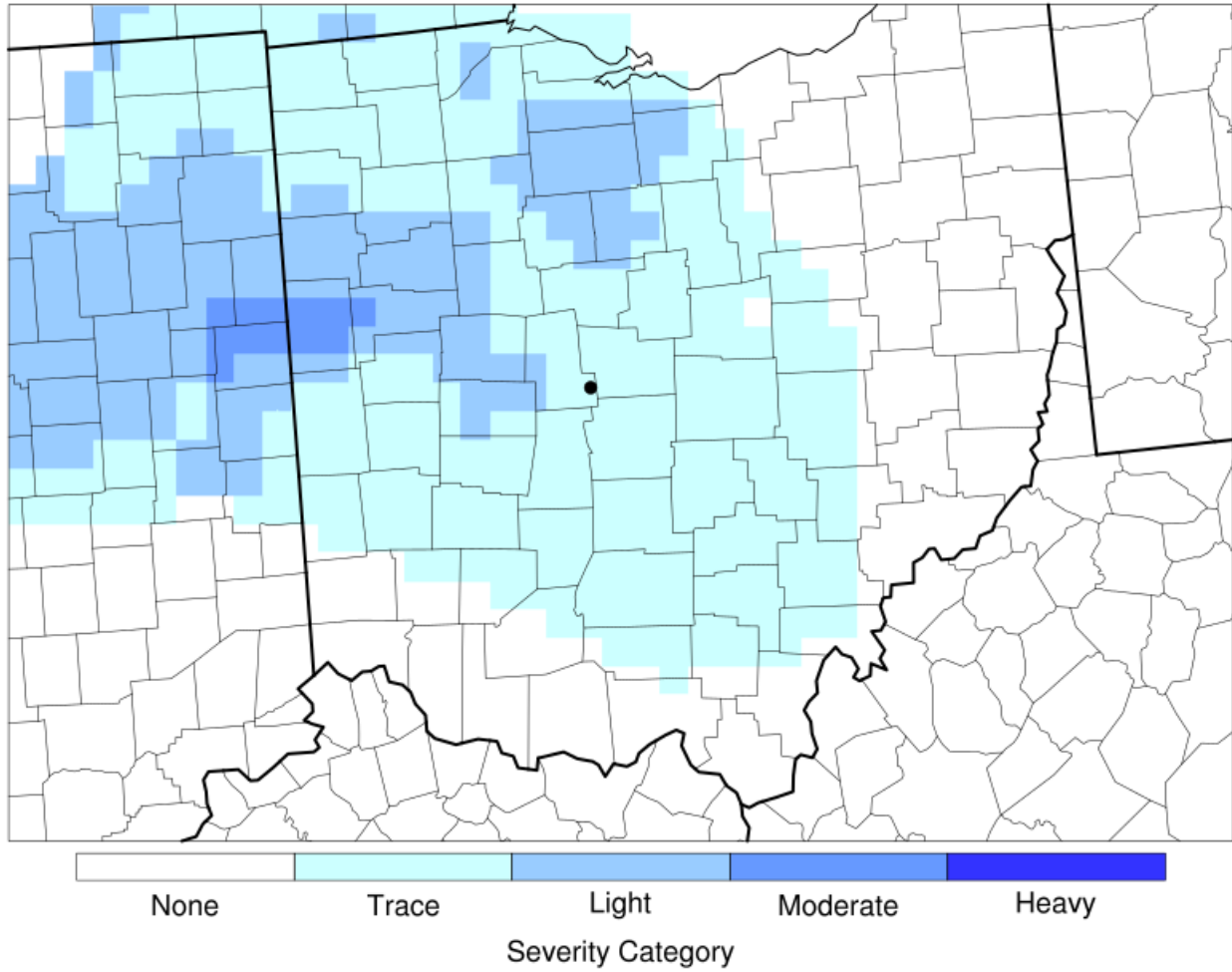


SUPERCOOLED LARGE DROP POTENTIAL at 010200Z our forecast valid at: 3/17/2019 2200 UTC



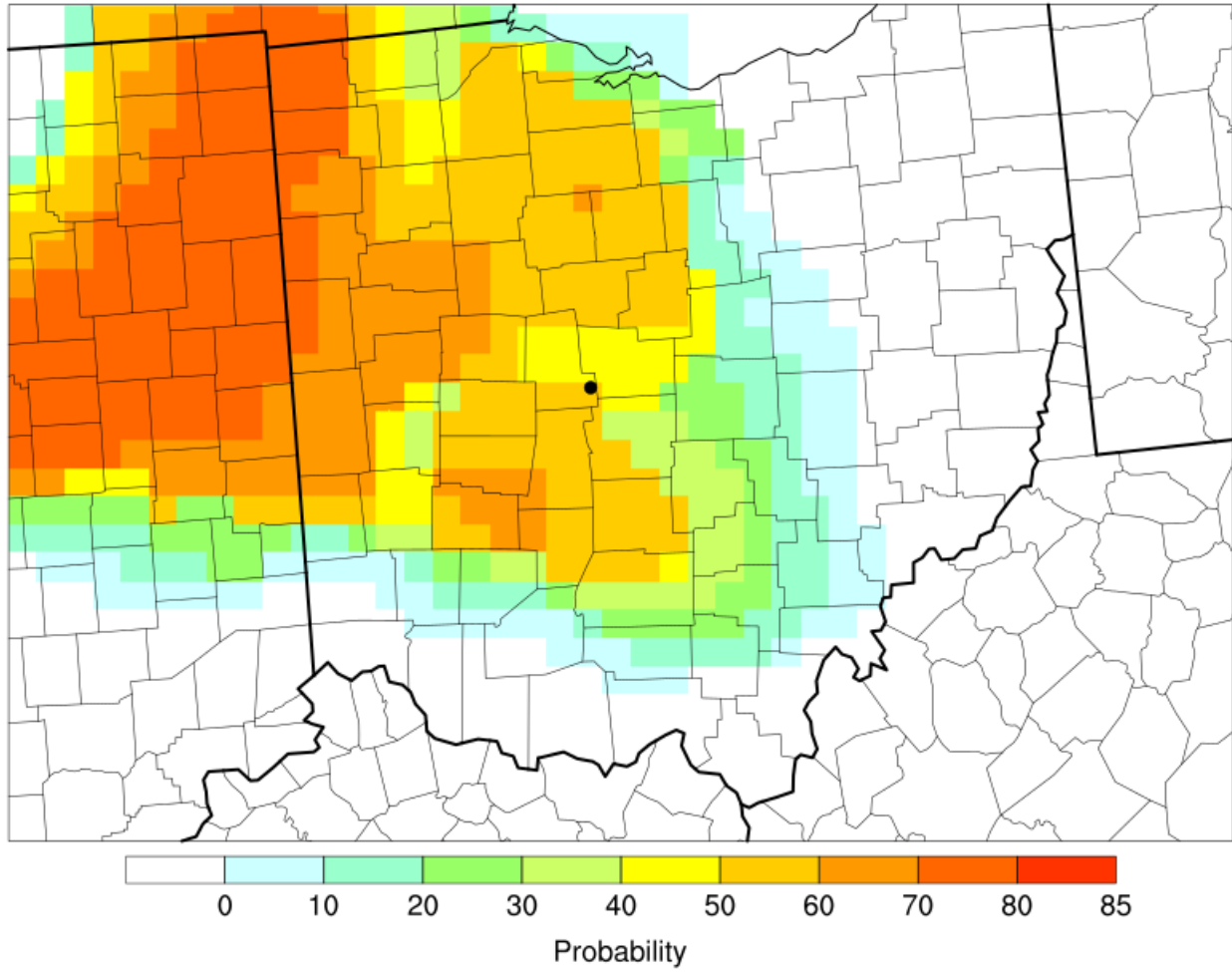
ICING SEVERITY at FL 030

01 Hour forecast valid at: 3/17/2019 2200 UTC

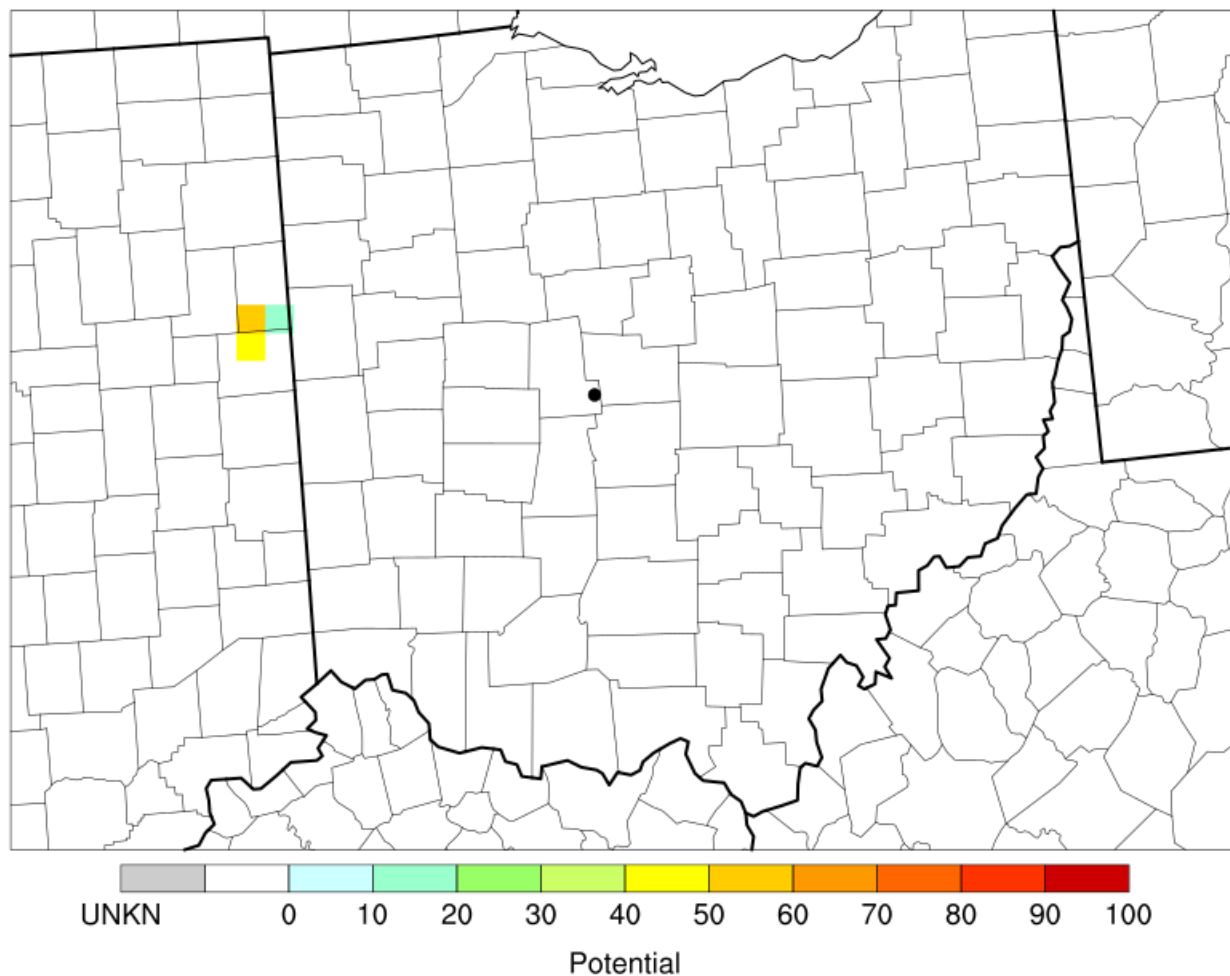


ICING PROBABILITY at FL 030

01 Hour forecast valid at: 3/17/2019 2200 UTC

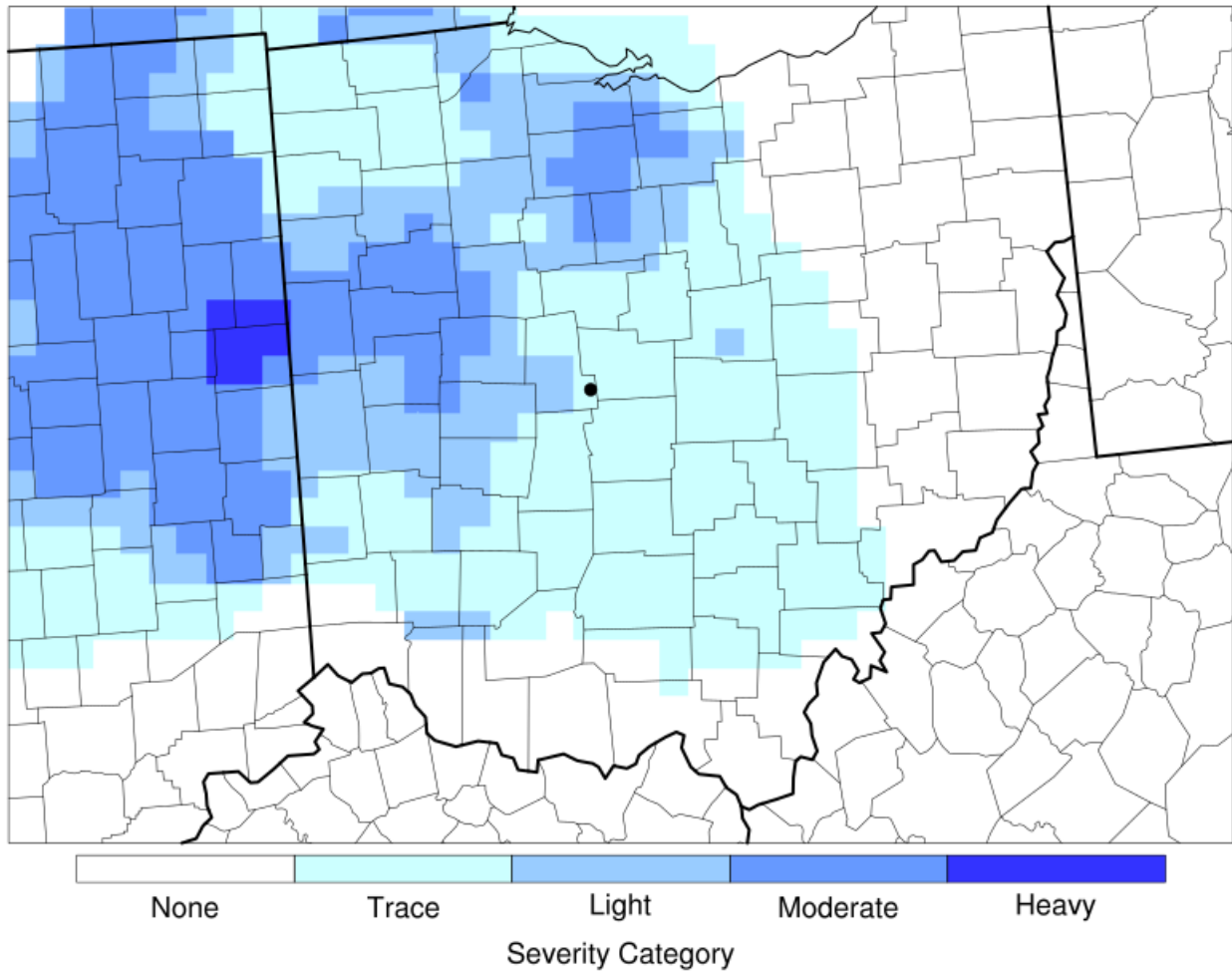


SUPERCOOLED LARGE DROP POTENTIAL at 0100z our forecast valid at: 3/17/2019 2200 UTC



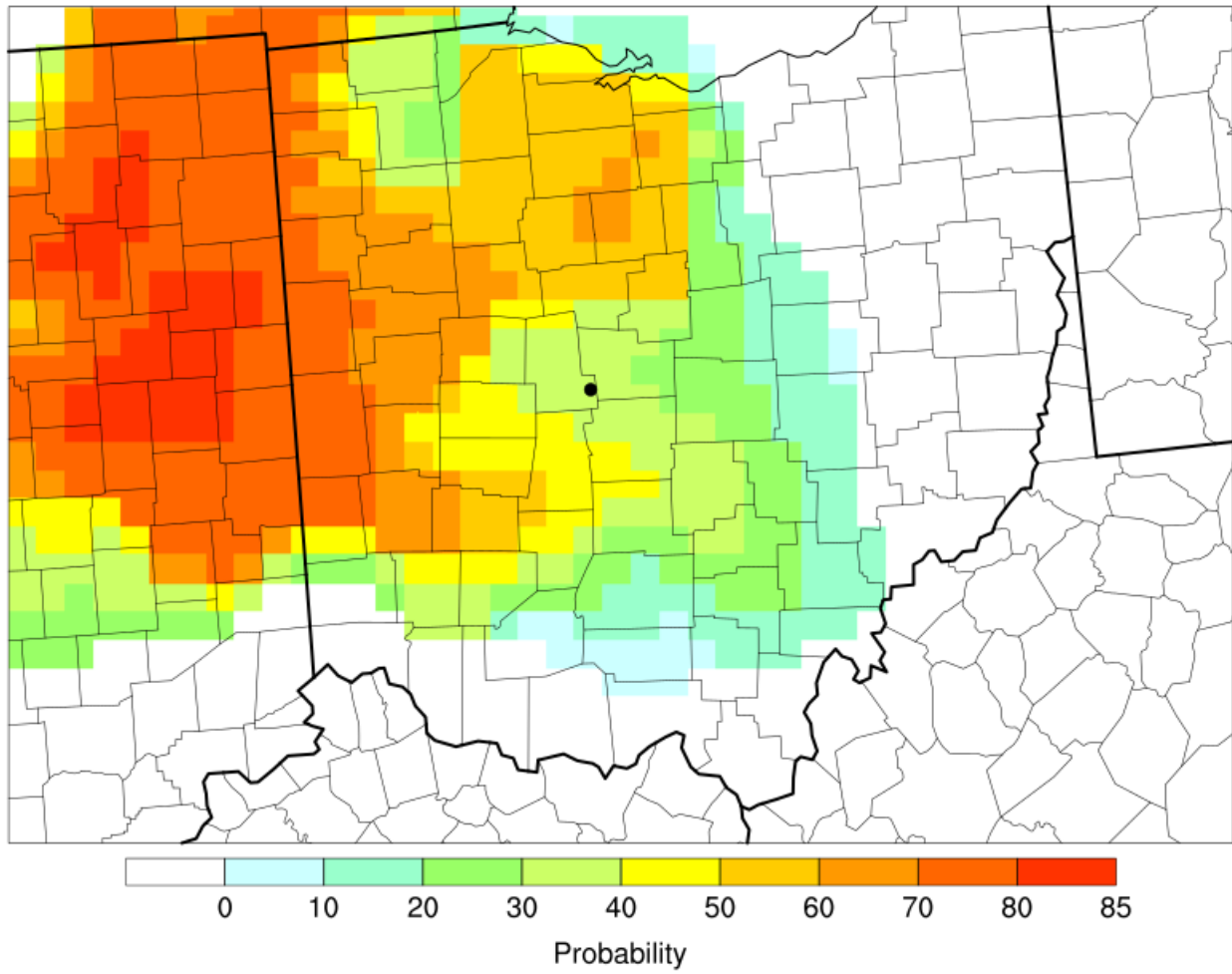
ICING SEVERITY at FL 040

01 Hour forecast valid at: 3/17/2019 2200 UTC

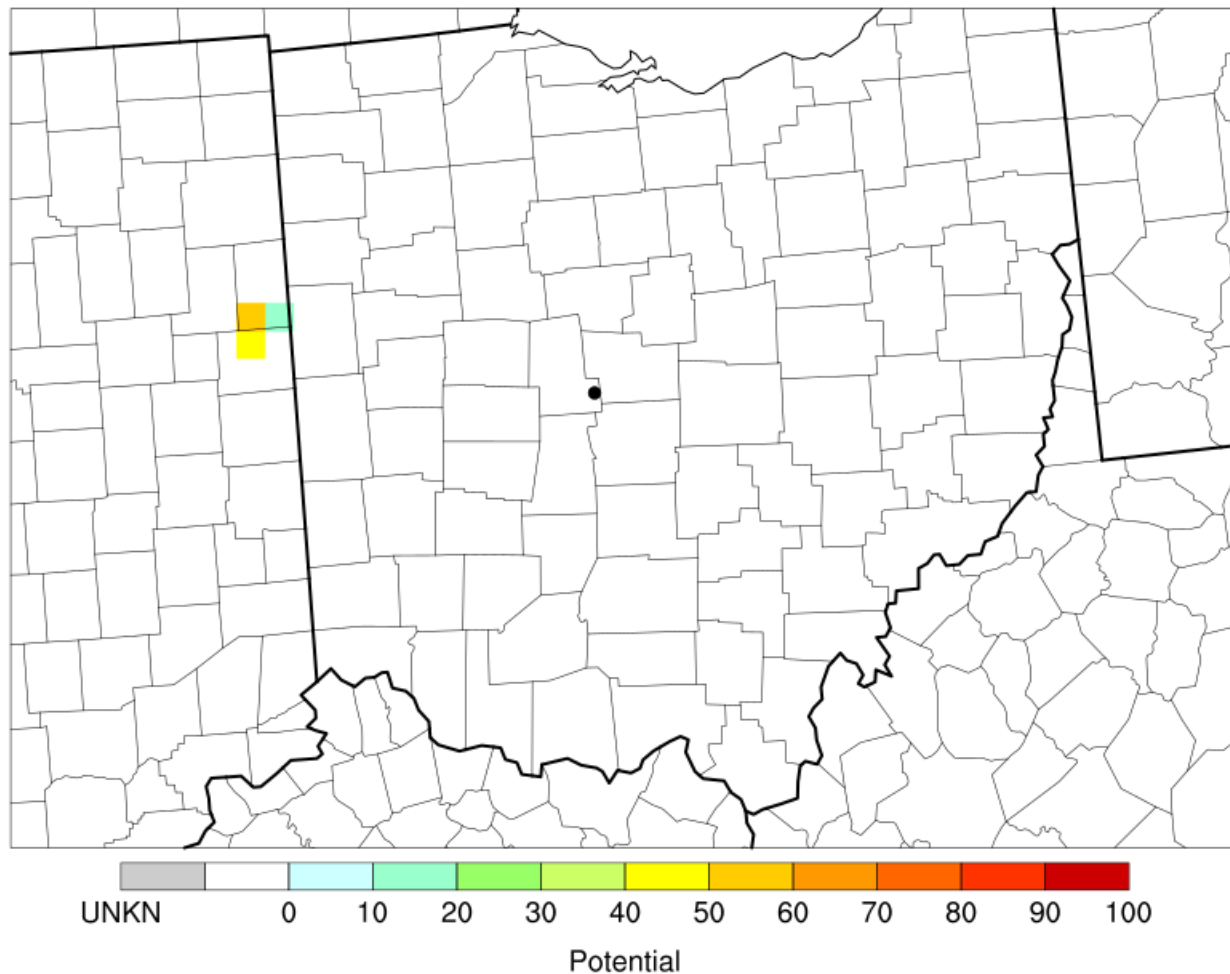


ICING PROBABILITY at FL 040

01 Hour forecast valid at: 3/17/2019 2200 UTC



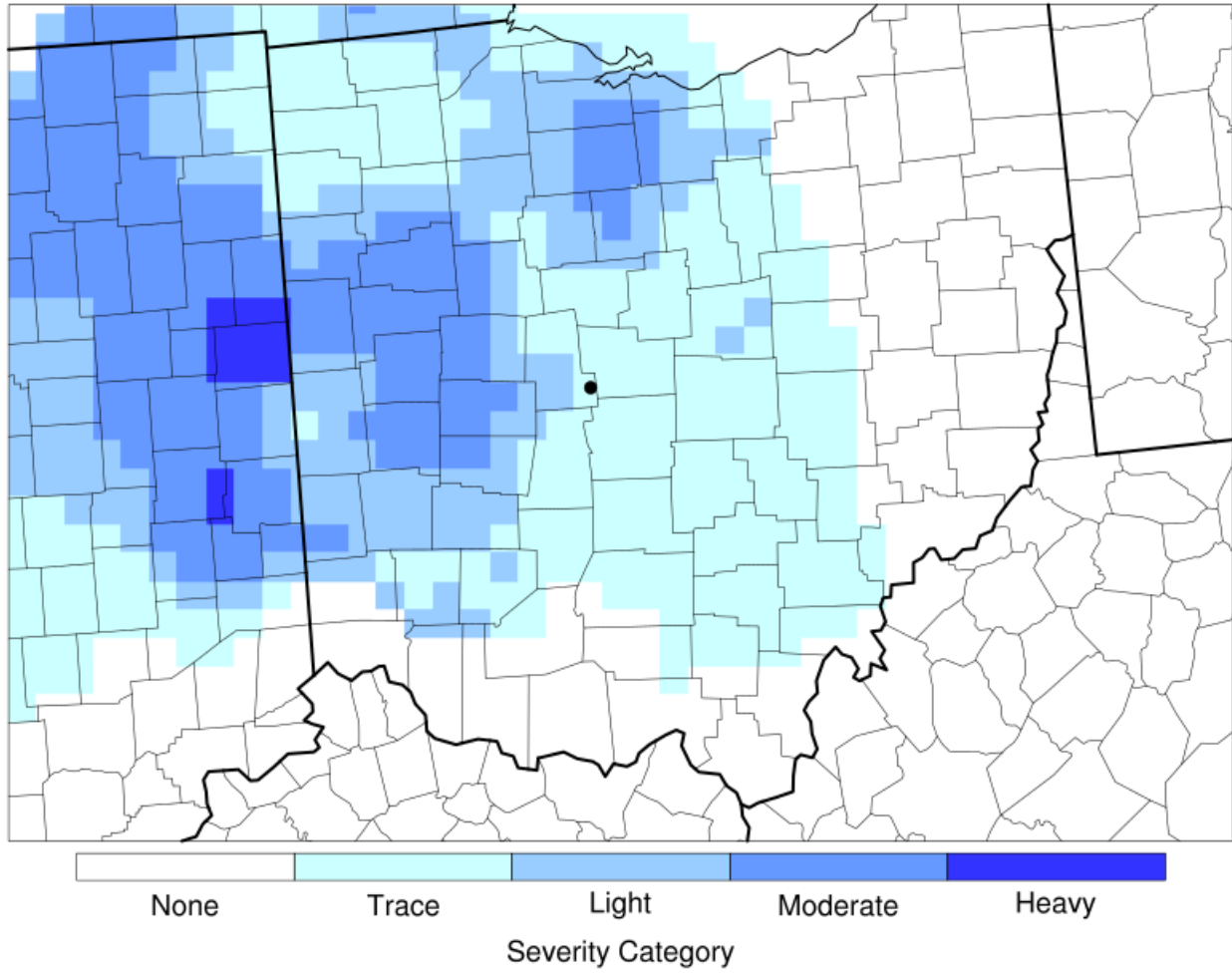
SUPERCOOLED LARGE DROP POTENTIAL at 01040r forecast valid at: 3/17/2019 2200 UTC





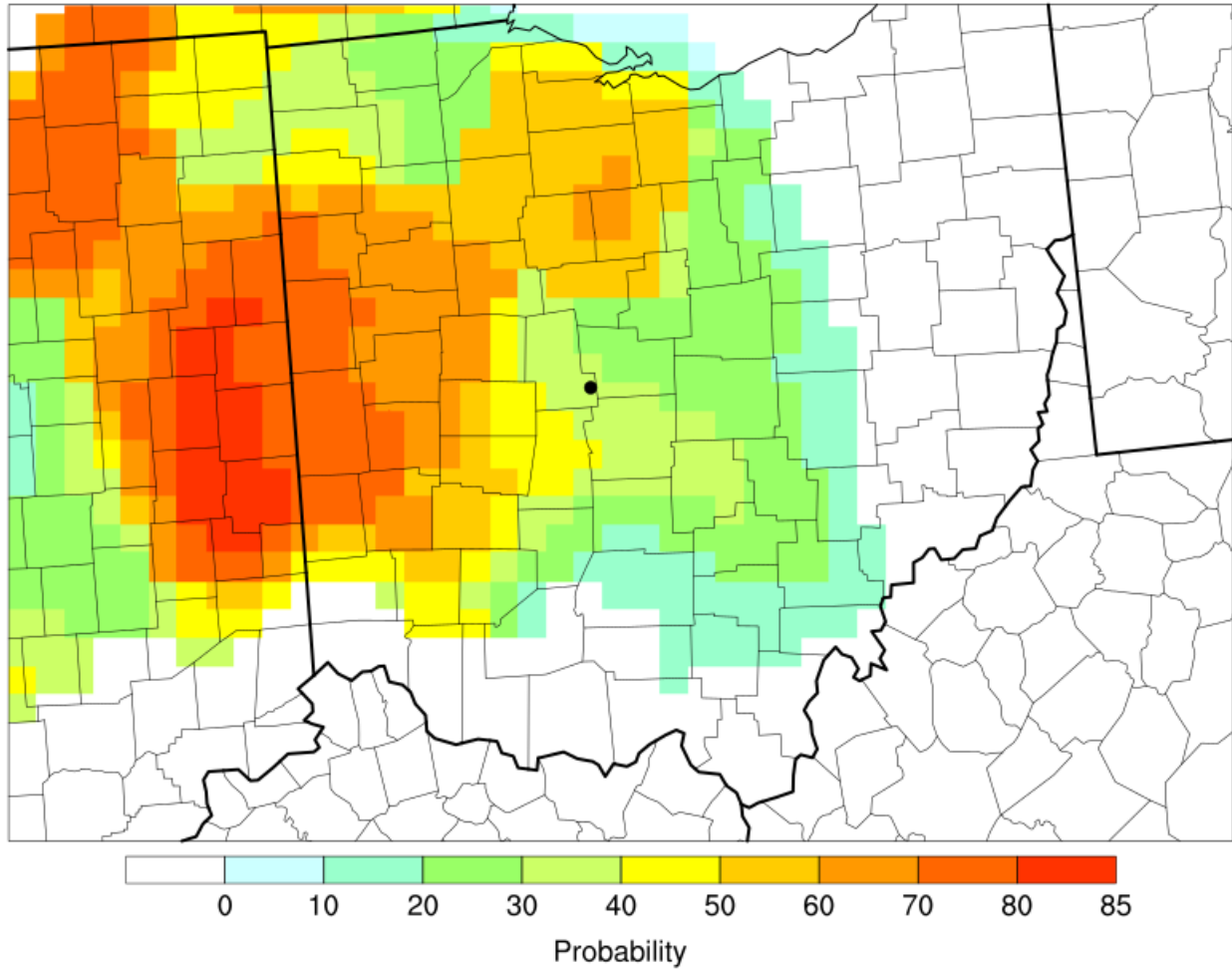
ICING SEVERITY at FL 050

01 Hour forecast valid at: 3/17/2019 2200 UTC



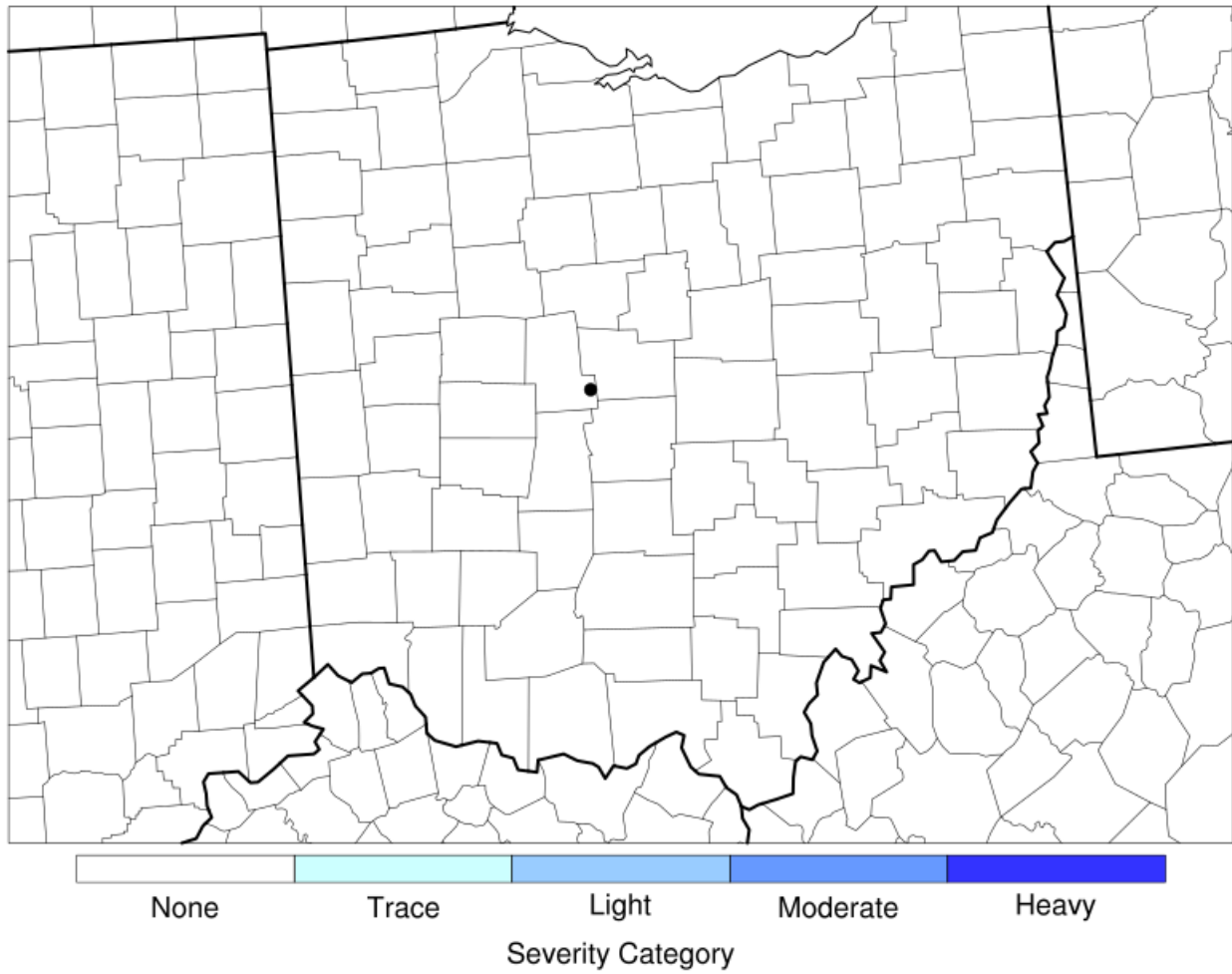
ICING PROBABILITY at FL 050

01 Hour forecast valid at: 3/17/2019 2200 UTC



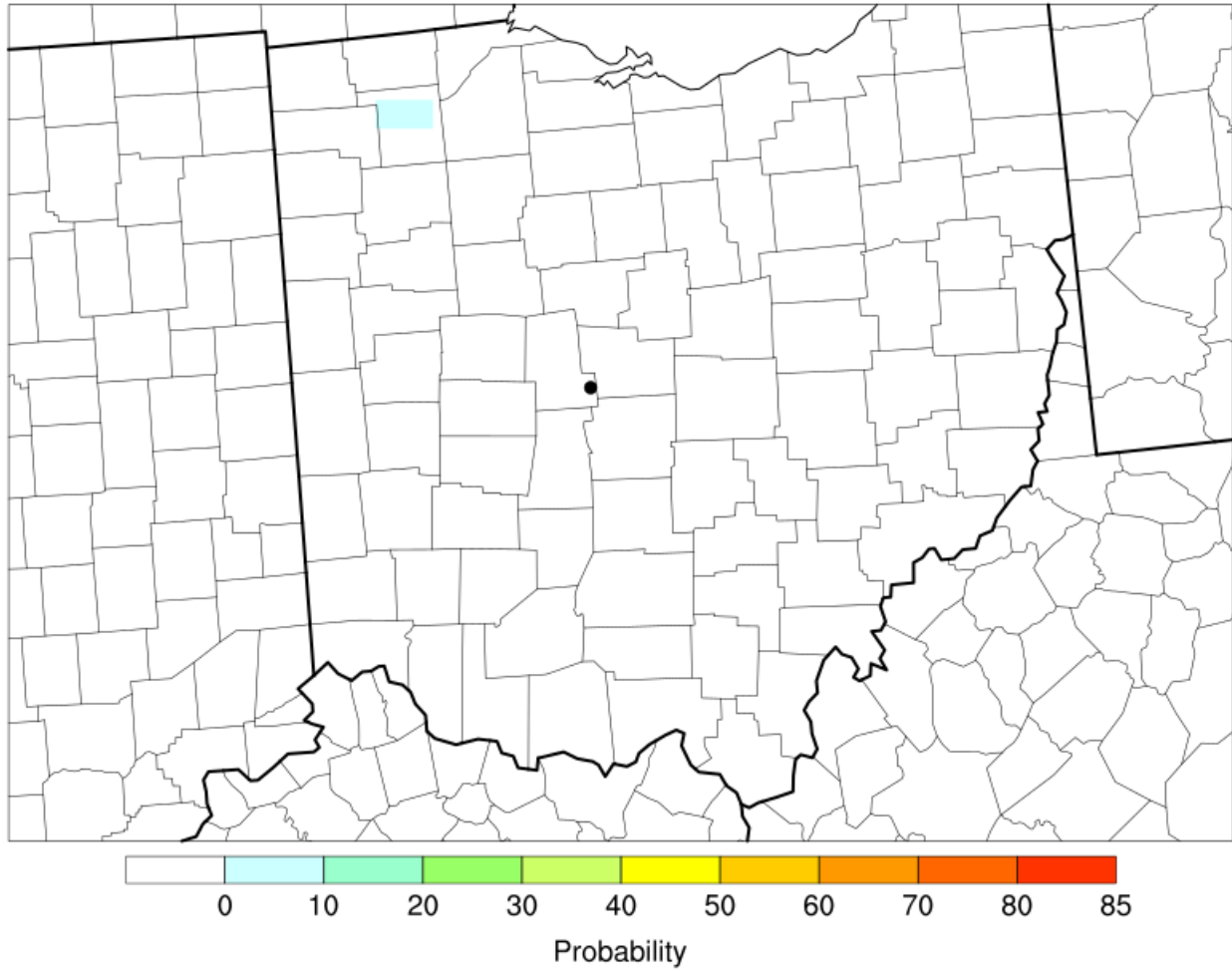
ICING SEVERITY at FL 010

02 Hour forecast valid at: 3/17/2019 2200 UTC

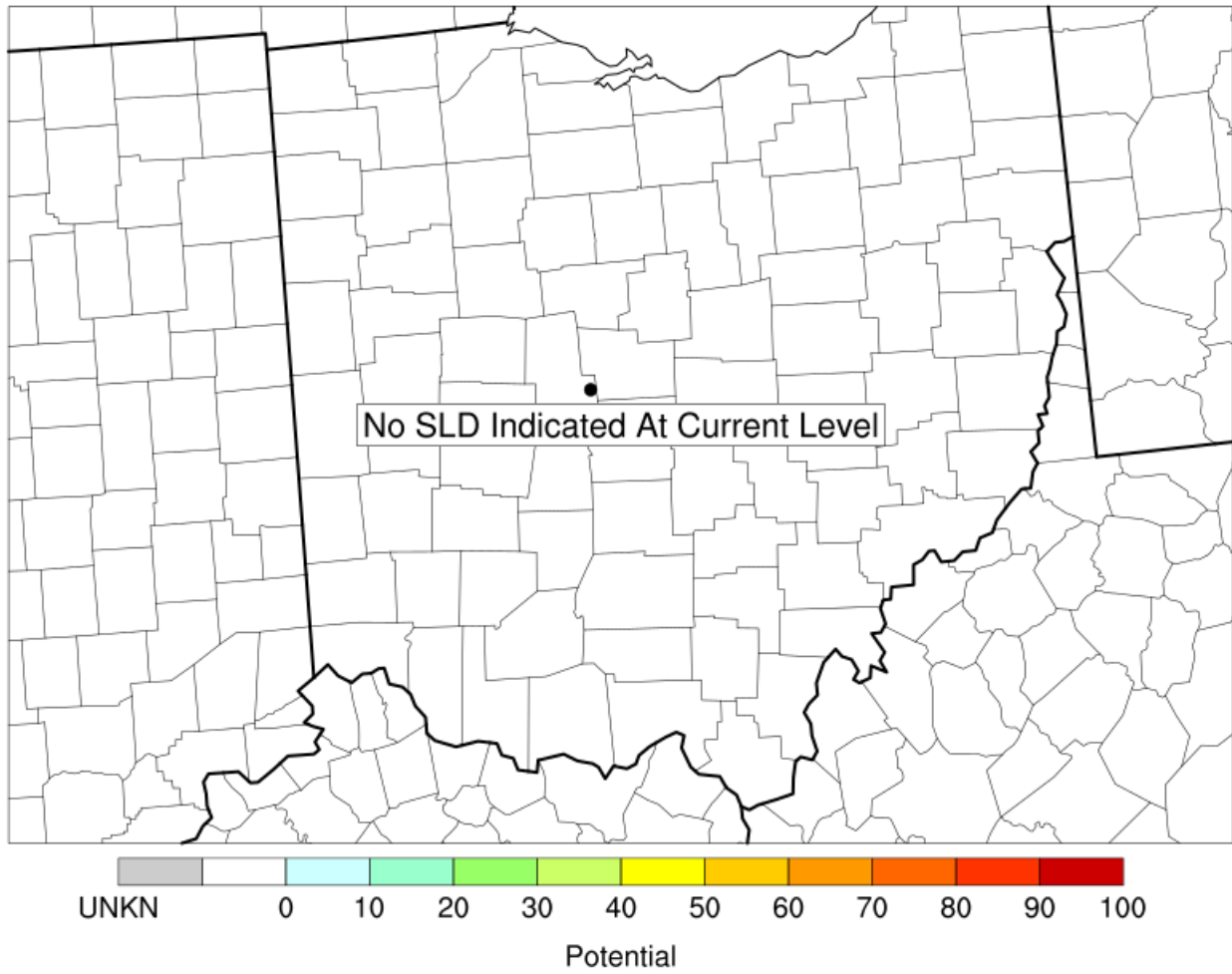


ICING PROBABILITY at FL 010

02 Hour forecast valid at: 3/17/2019 2200 UTC

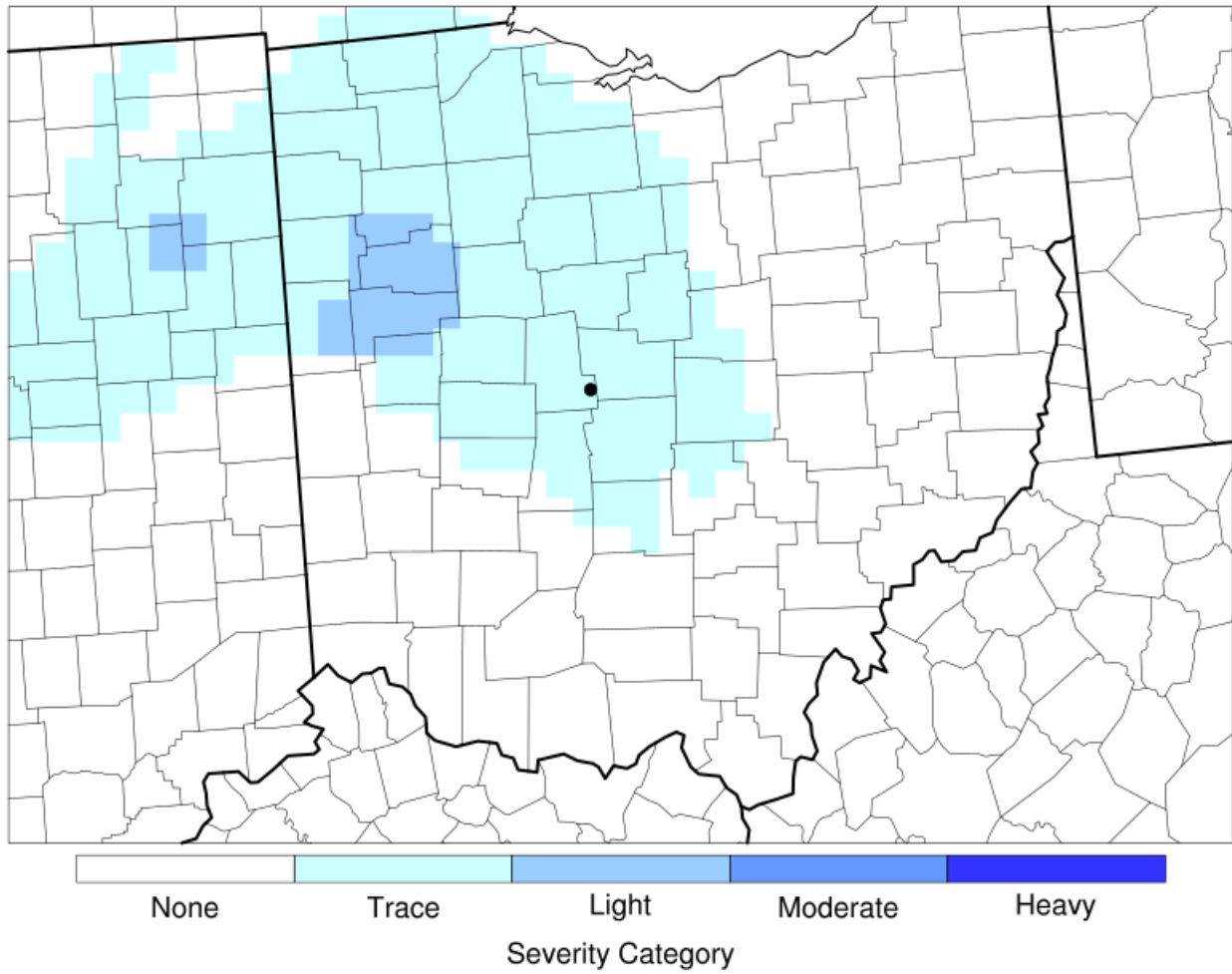


SUPERCOOLED LARGE DROP POTENTIAL at 020100Z forecast valid at: 3/17/2019 2200 UTC



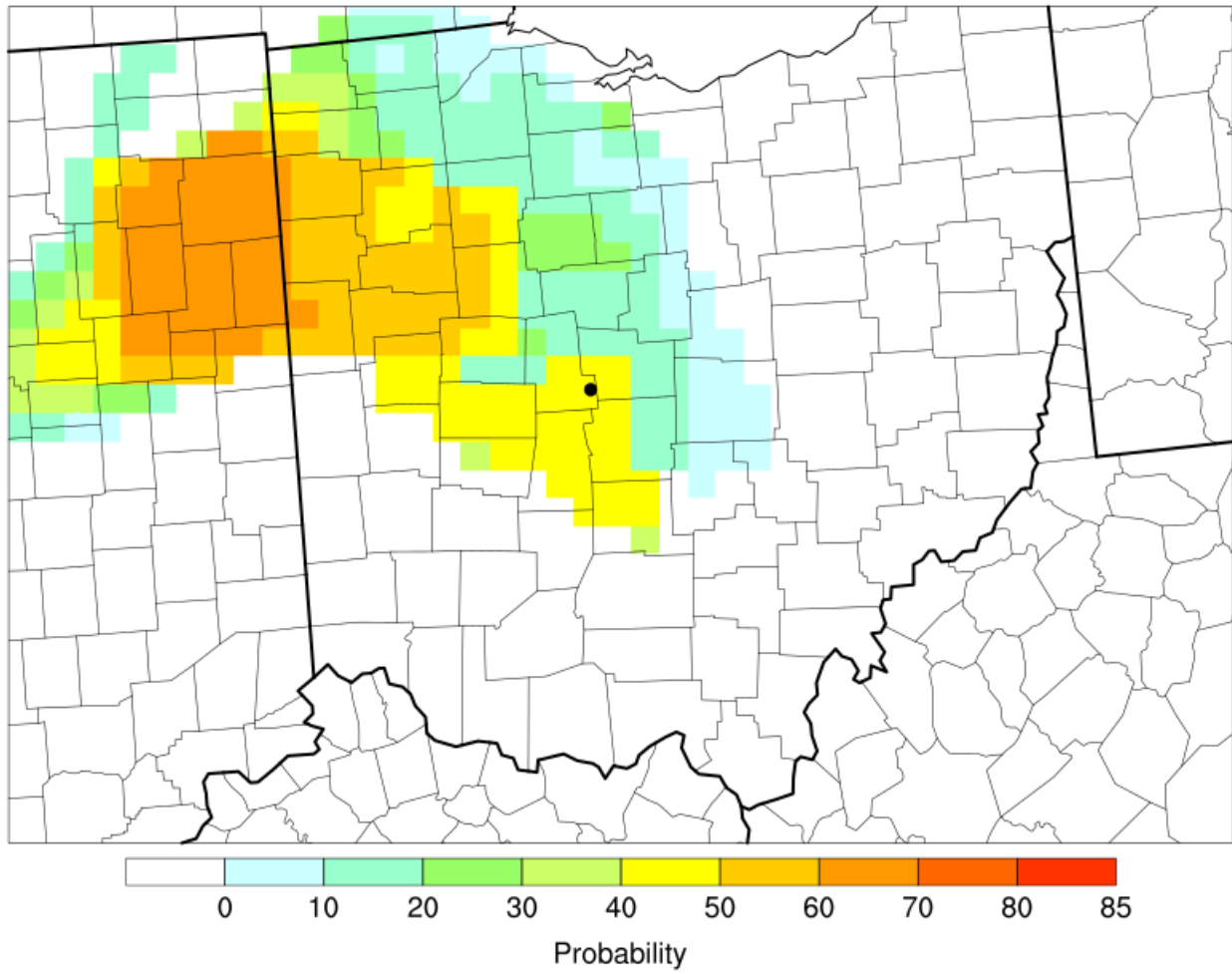
ICING SEVERITY at FL 020

02 Hour forecast valid at: 3/17/2019 2200 UTC

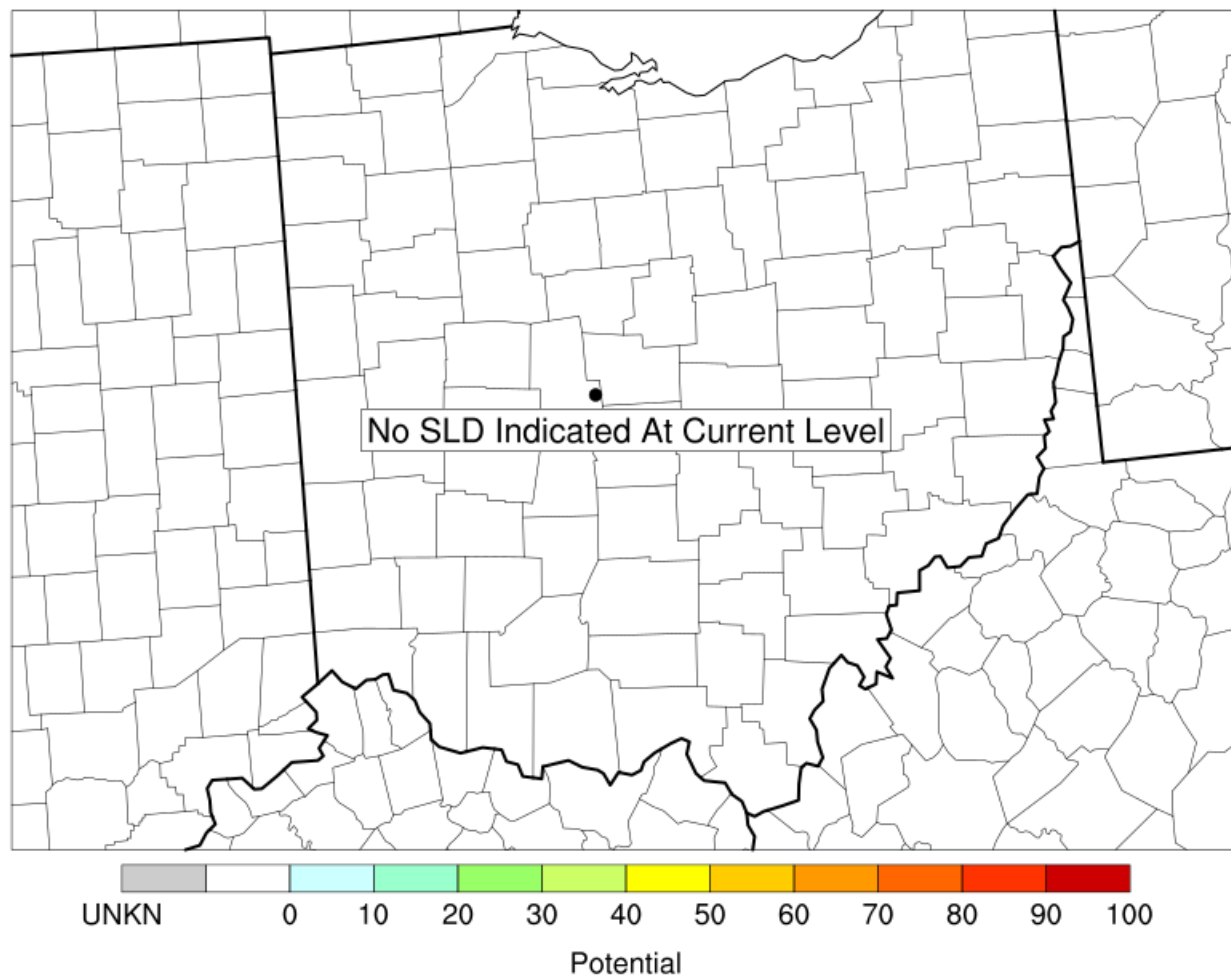


ICING PROBABILITY at FL 020

02 Hour forecast valid at: 3/17/2019 2200 UTC



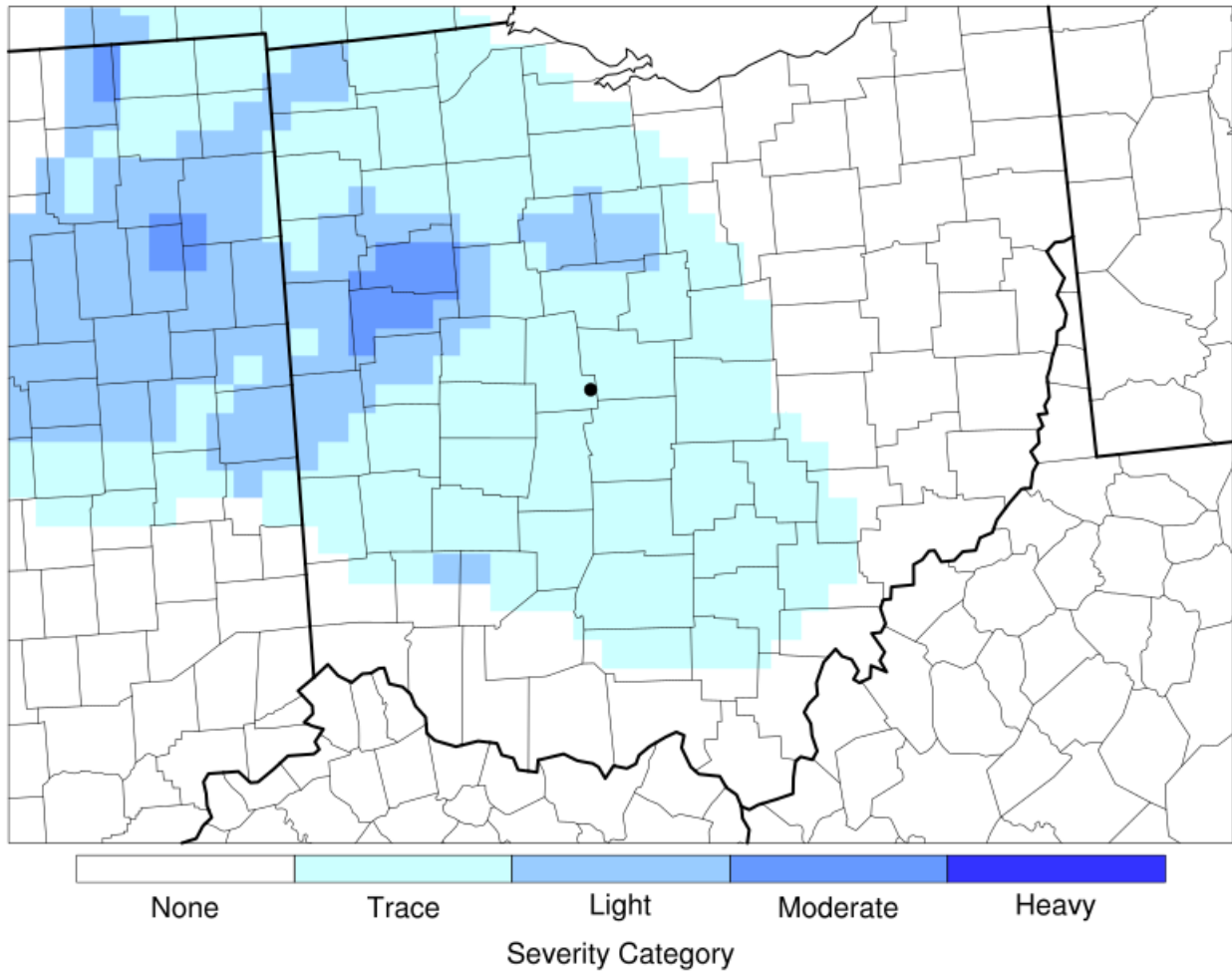
SUPERCOOLED LARGE DROP POTENTIAL at 0200Z our forecast valid at: 3/17/2019 2200 UTC





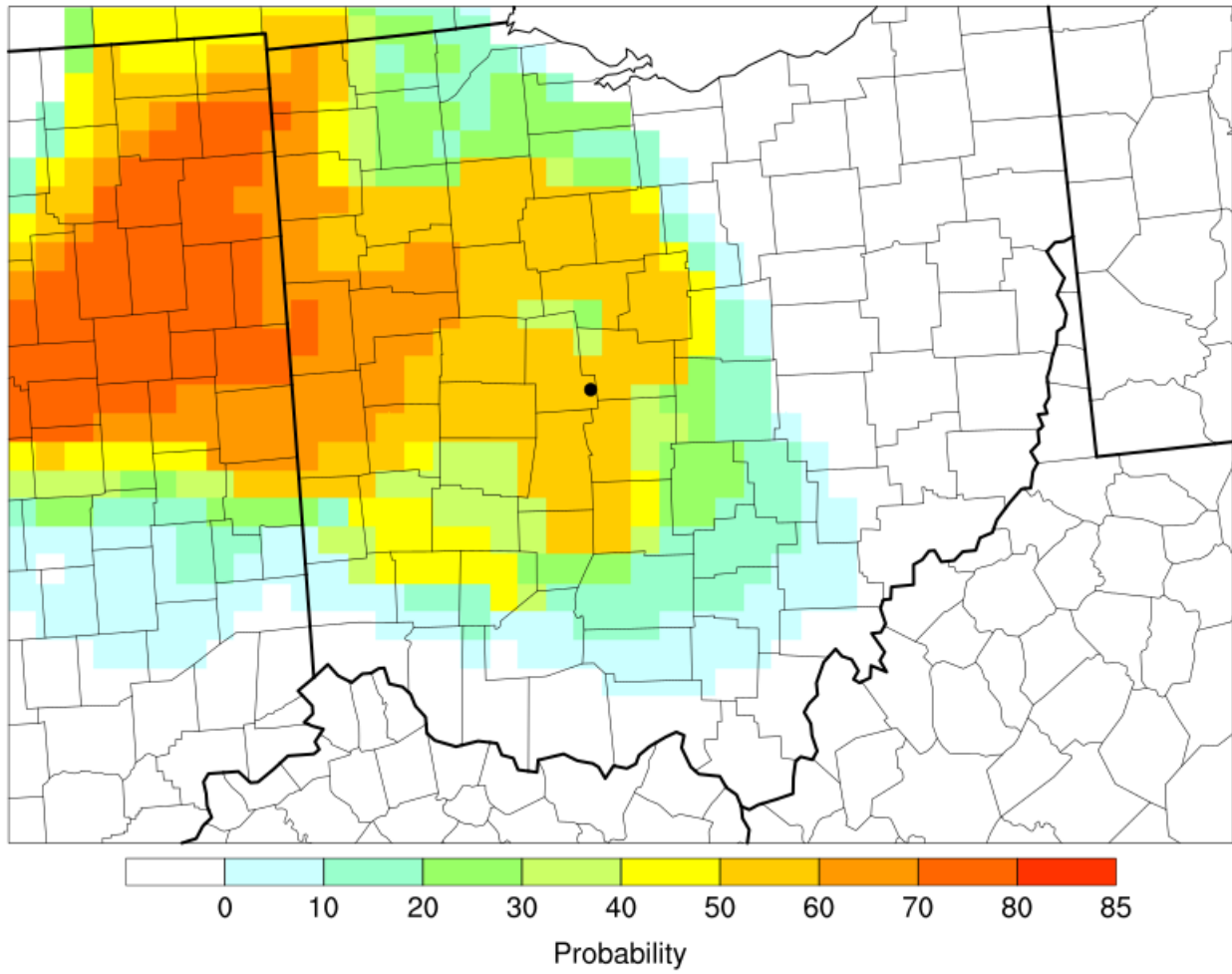
ICING SEVERITY at FL 030

02 Hour forecast valid at: 3/17/2019 2200 UTC

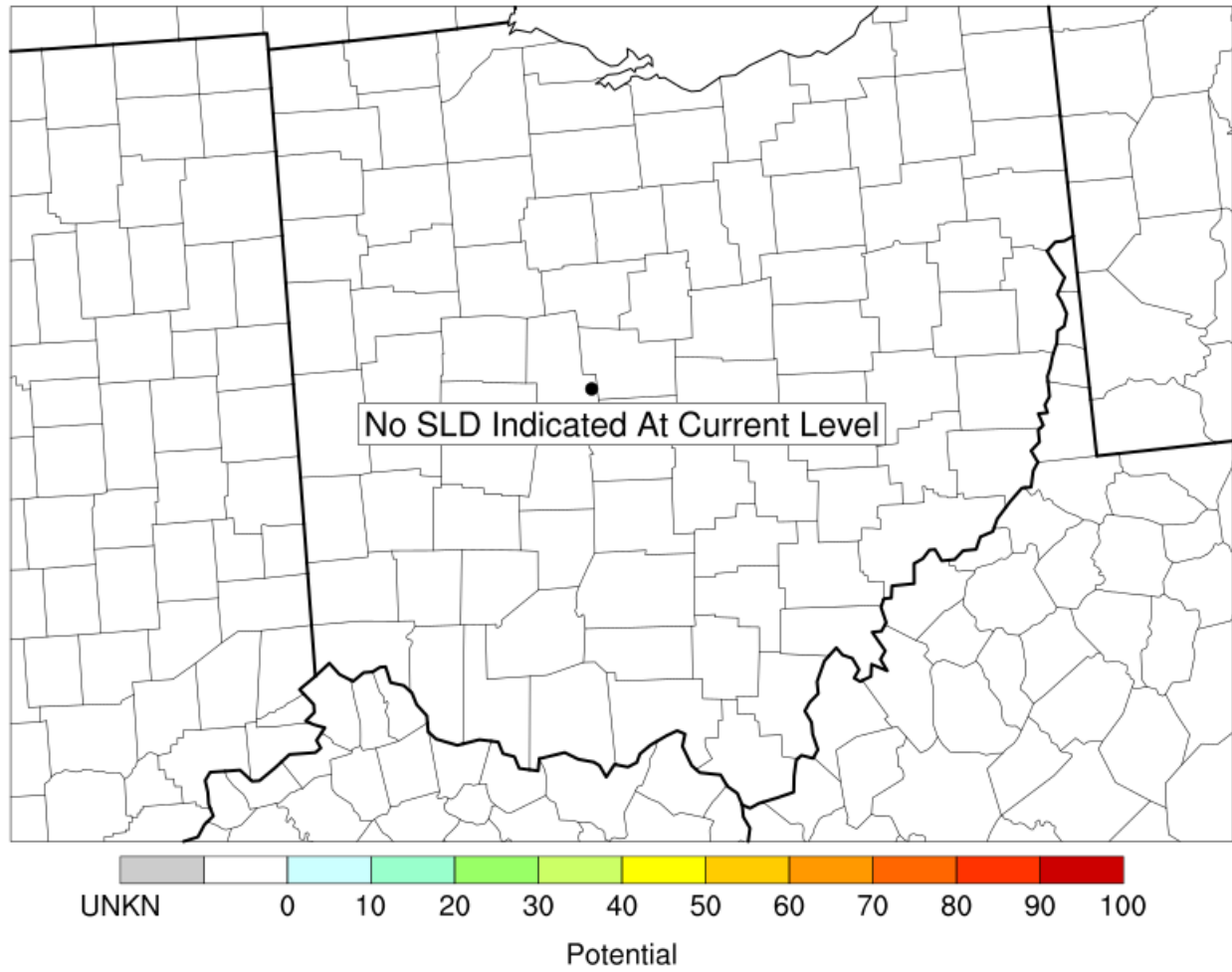


ICING PROBABILITY at FL 030

02 Hour forecast valid at: 3/17/2019 2200 UTC

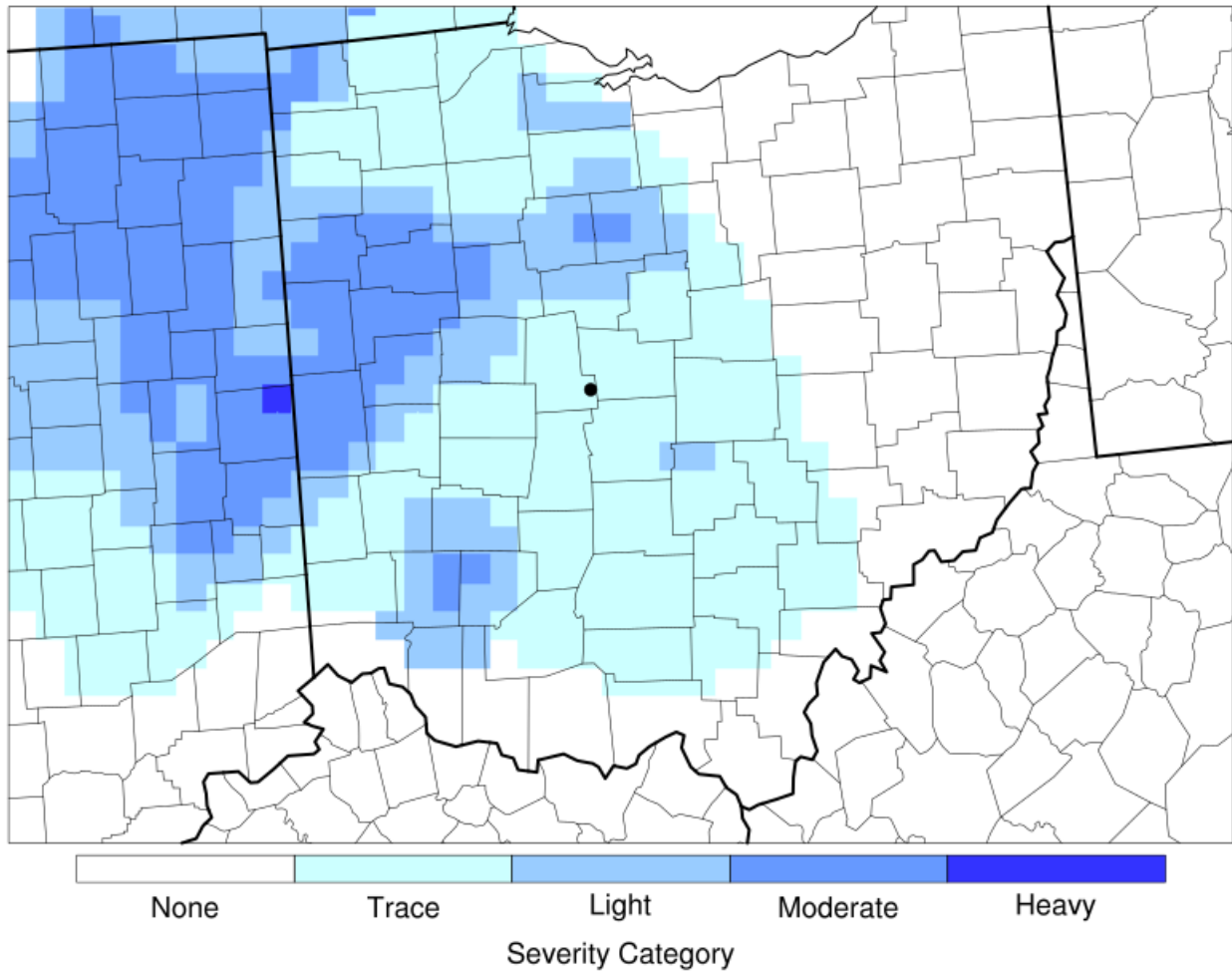


SUPERCOOLED LARGE DROP POTENTIAL at 0230Z our forecast valid at: 3/17/2019 2200 UTC



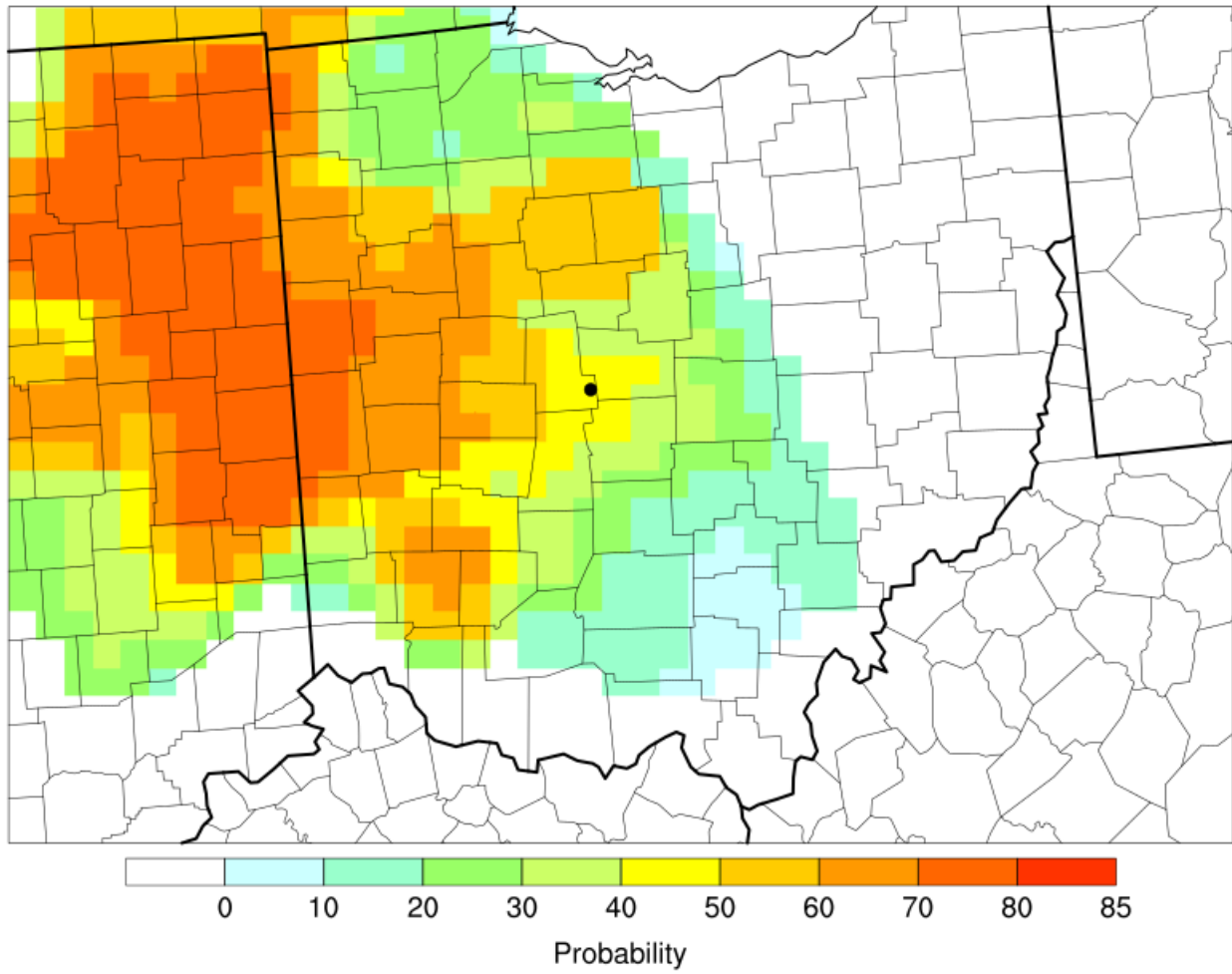
ICING SEVERITY at FL 040

02 Hour forecast valid at: 3/17/2019 2200 UTC

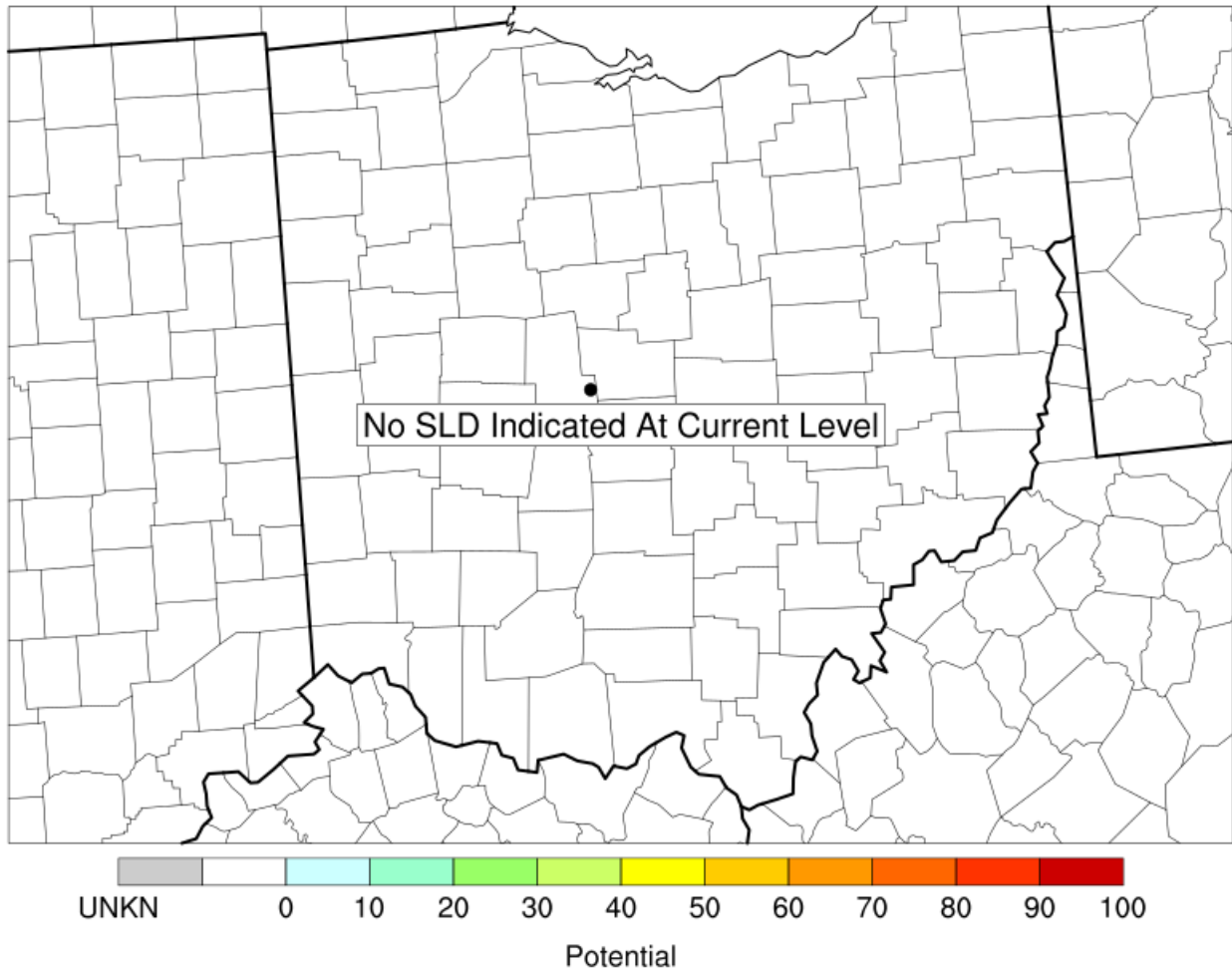


ICING PROBABILITY at FL 040

02 Hour forecast valid at: 3/17/2019 2200 UTC

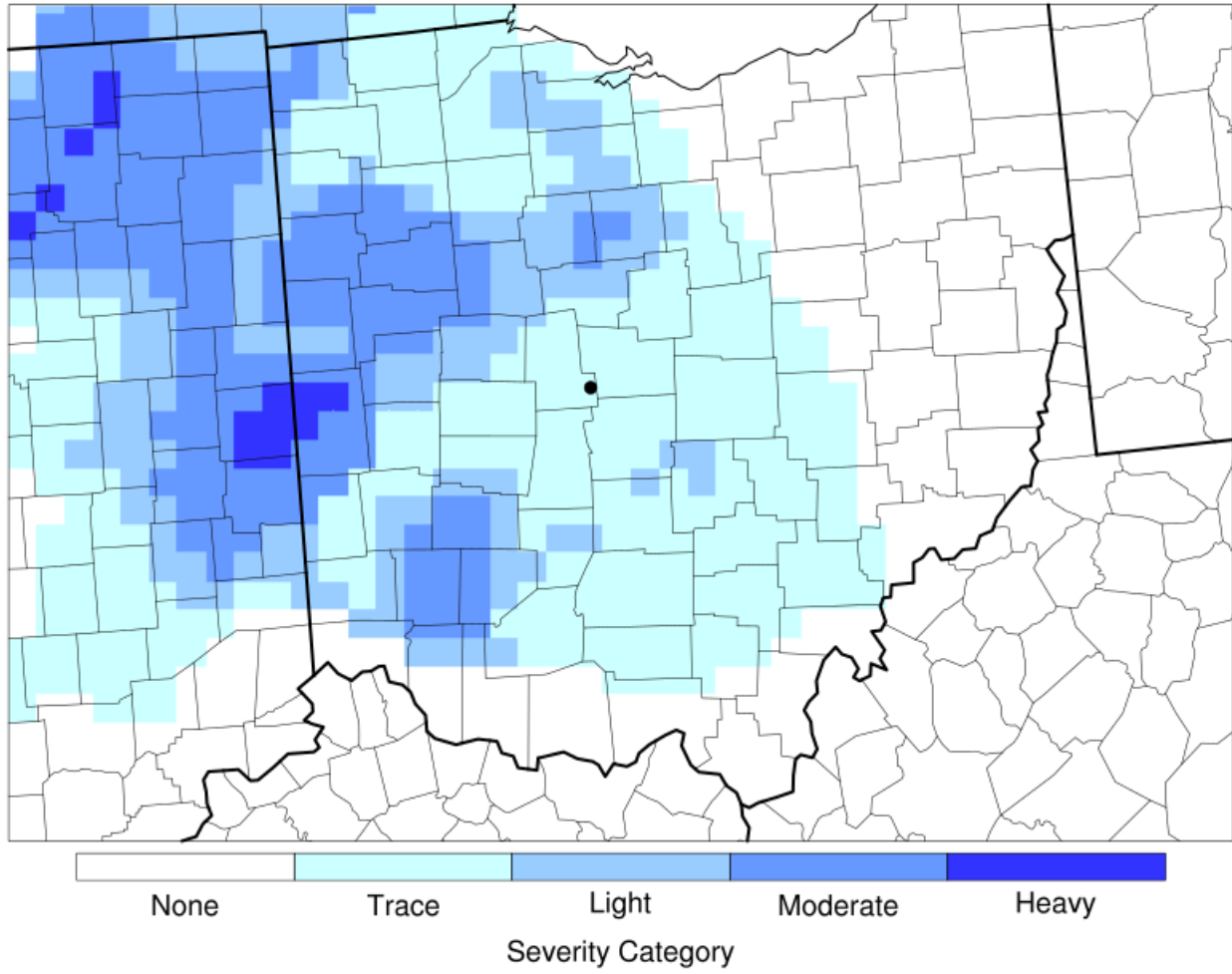


SUPERCOOLED LARGE DROP POTENTIAL at 0200 UTC our forecast valid at: 3/17/2019 2200 UTC



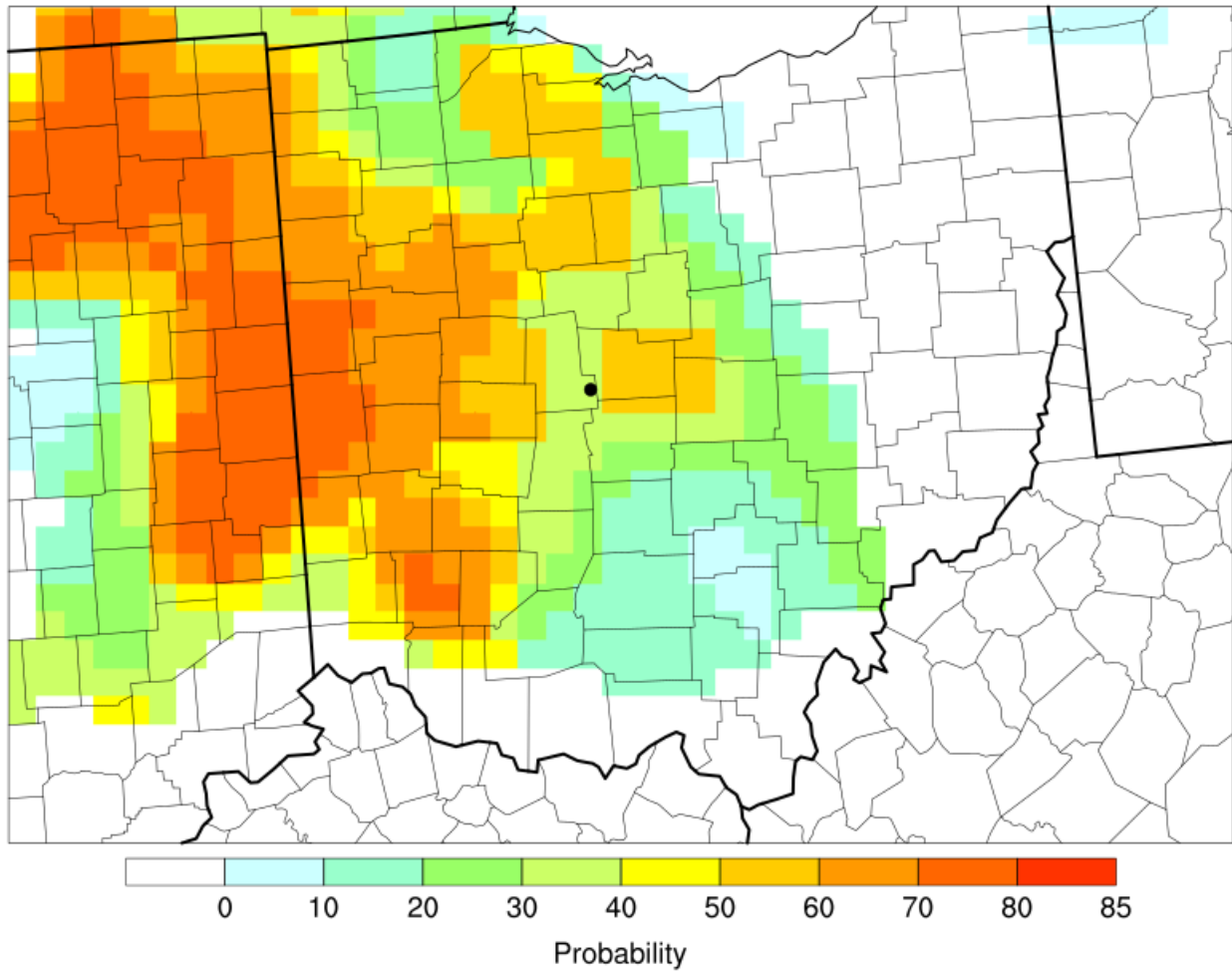
ICING SEVERITY at FL 050

02 Hour forecast valid at: 3/17/2019 2200 UTC



ICING PROBABILITY at FL 050

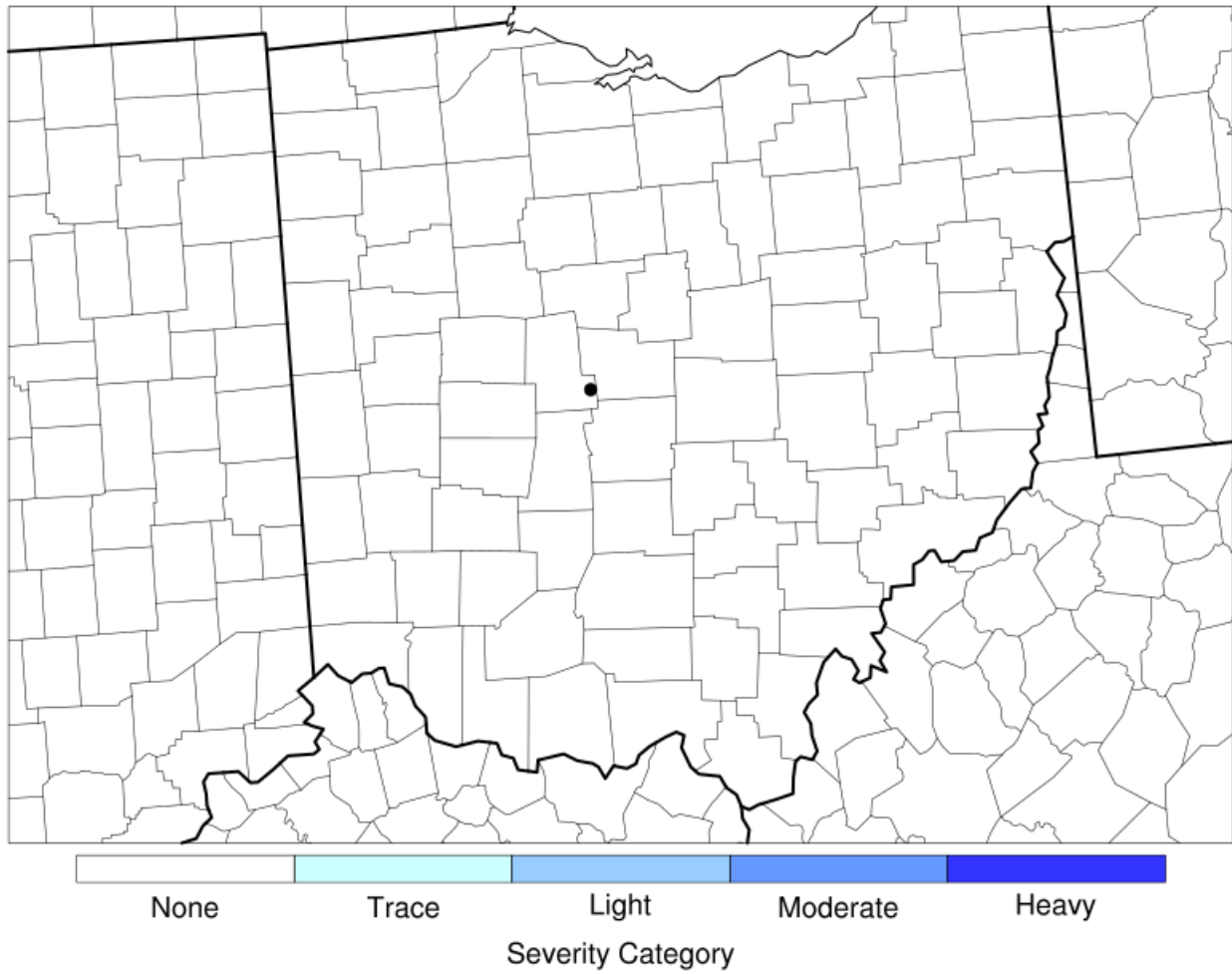
02 Hour forecast valid at: 3/17/2019 2200 UTC





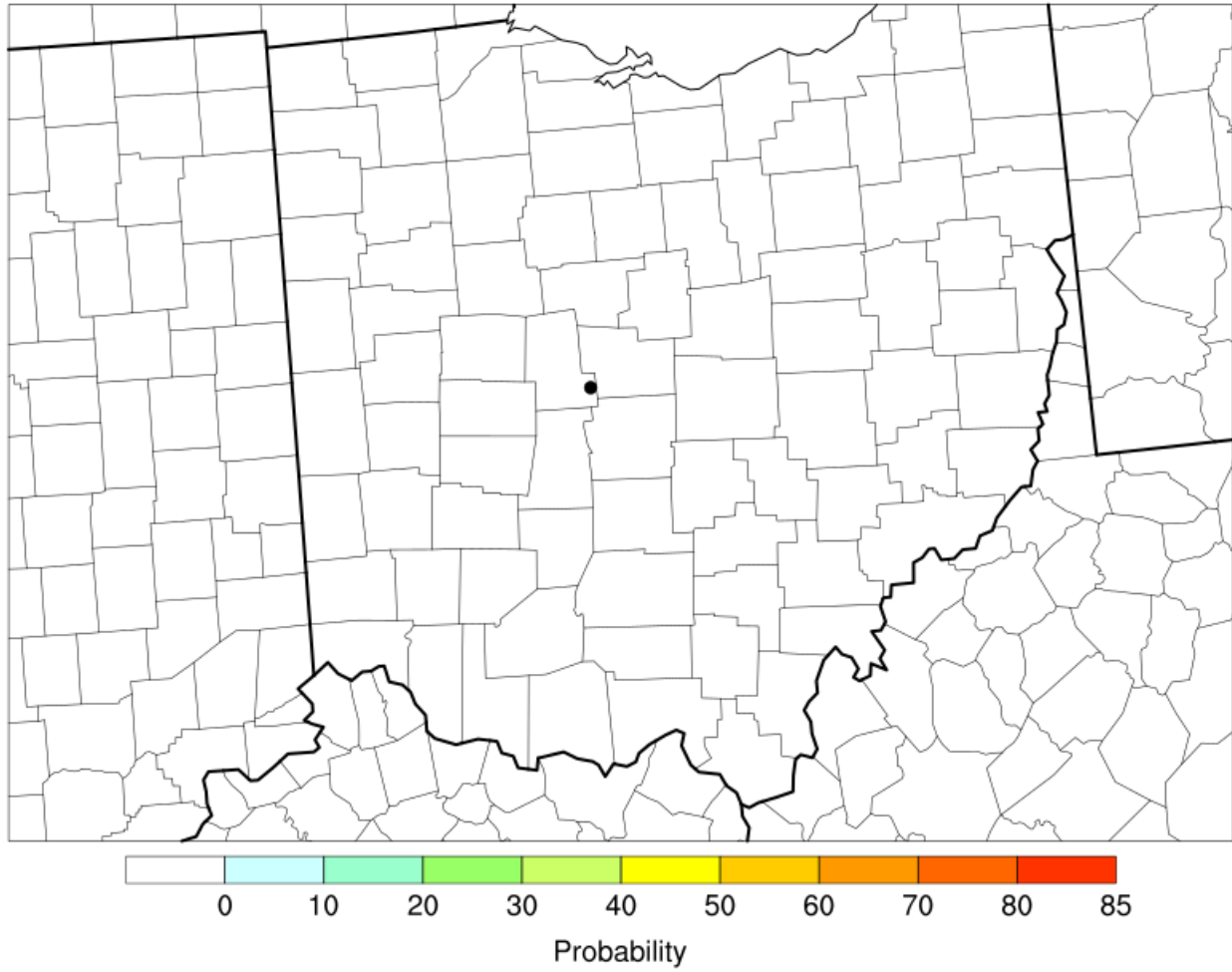
ICING SEVERITY at FL 010

03 Hour forecast valid at: 3/17/2019 2200 UTC

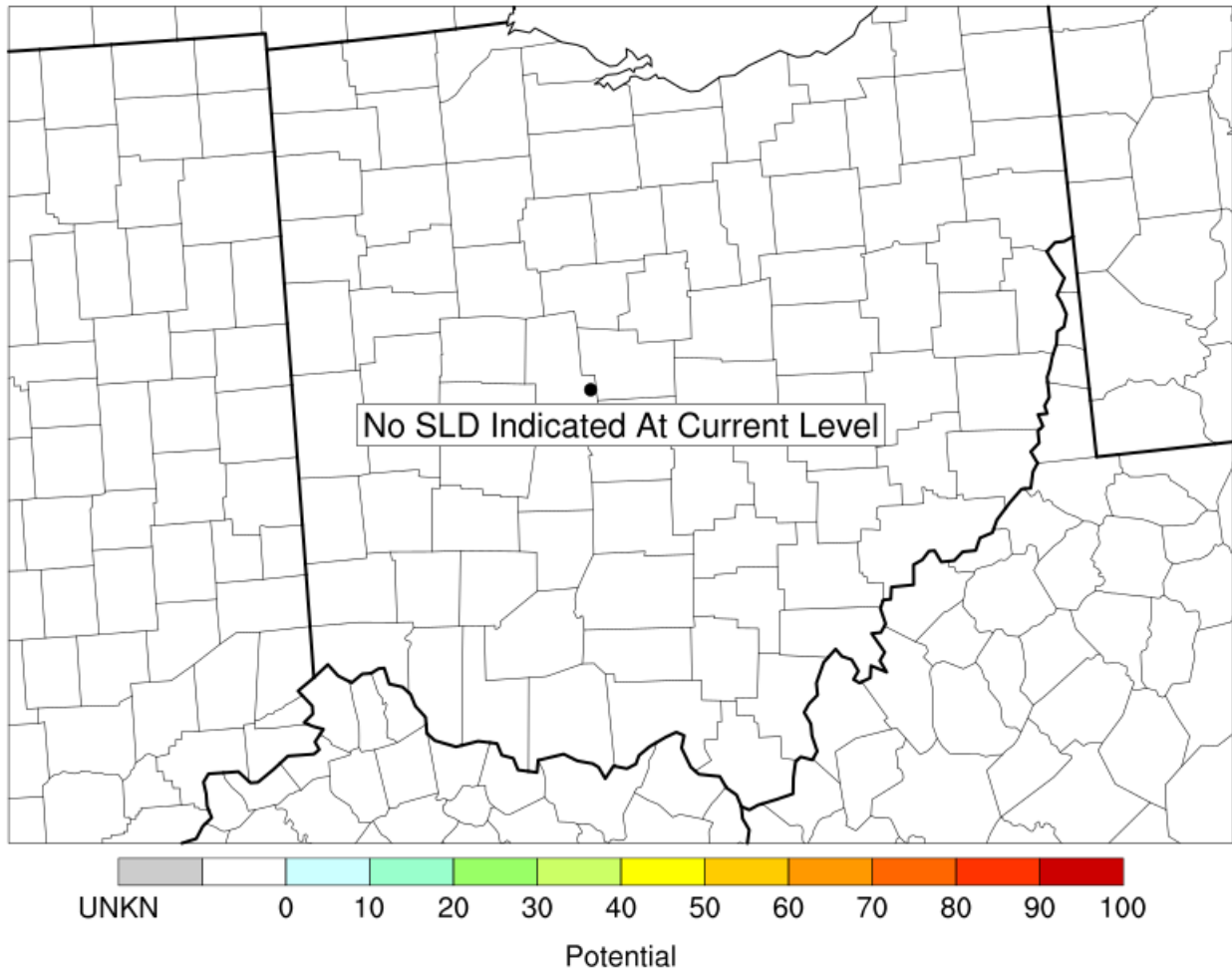


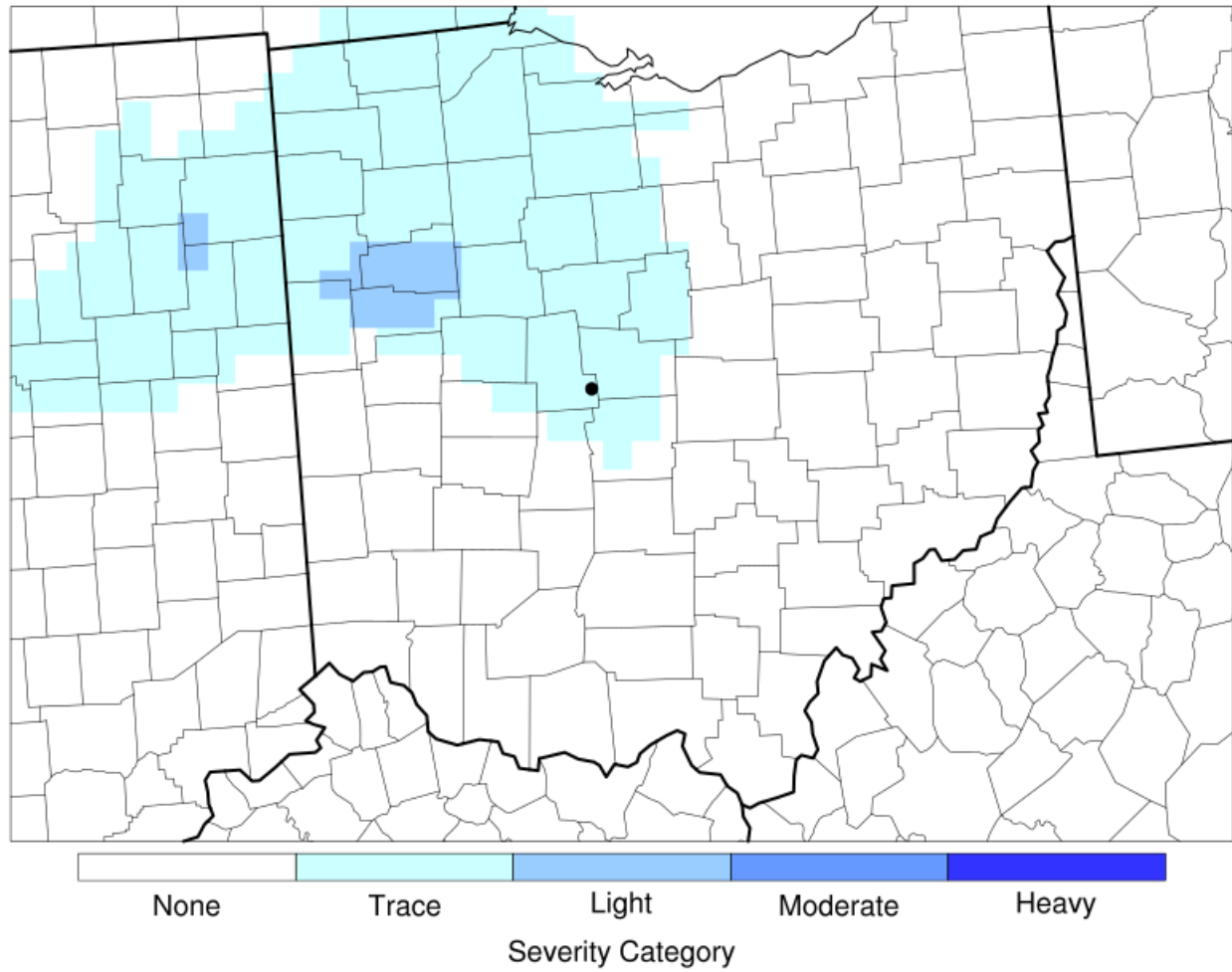
ICING PROBABILITY at FL 010

03 Hour forecast valid at: 3/17/2019 2200 UTC



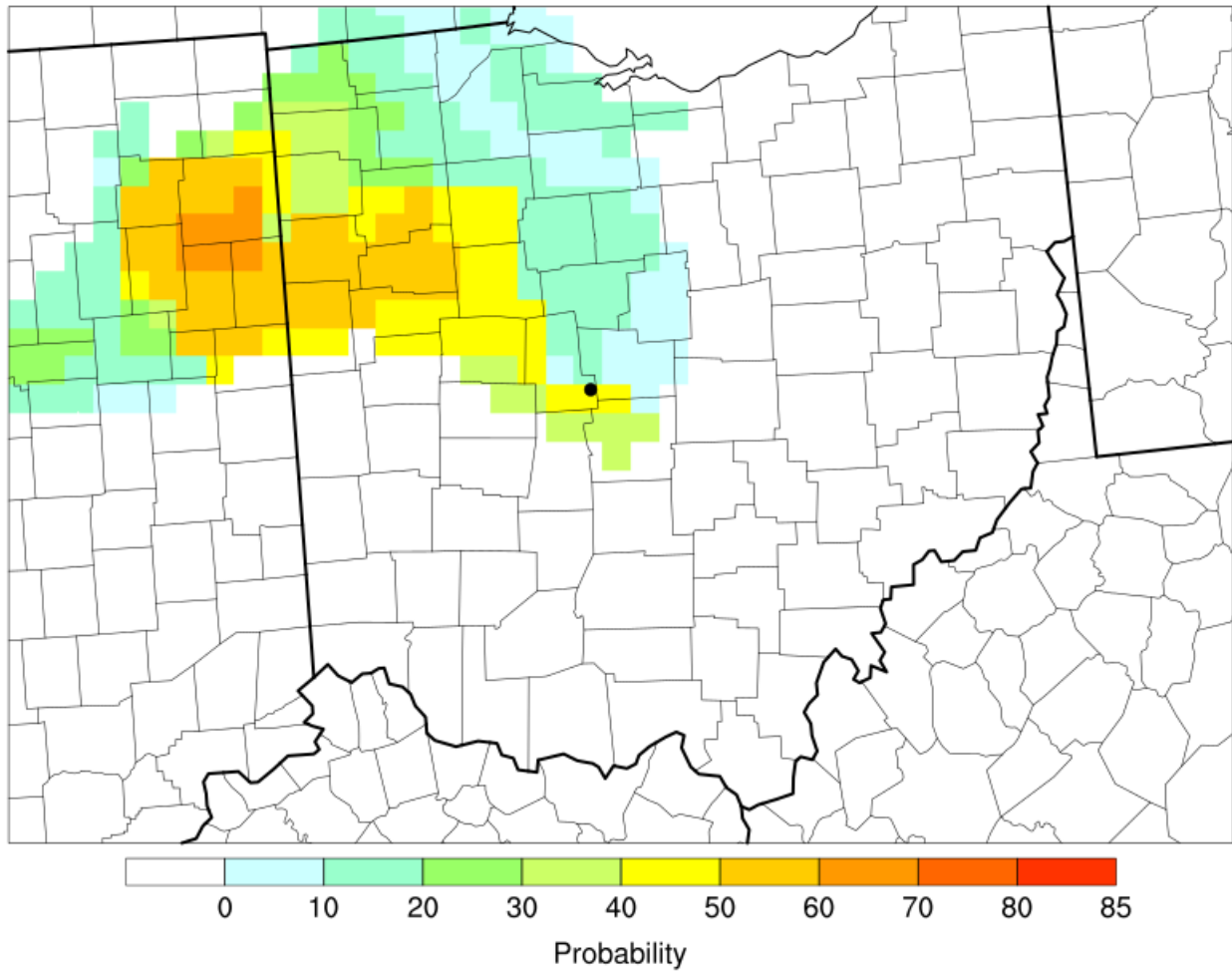
SUPERCOOLED LARGE DROP POTENTIAL at 030100Z forecast valid at: 3/17/2019 2200 UTC



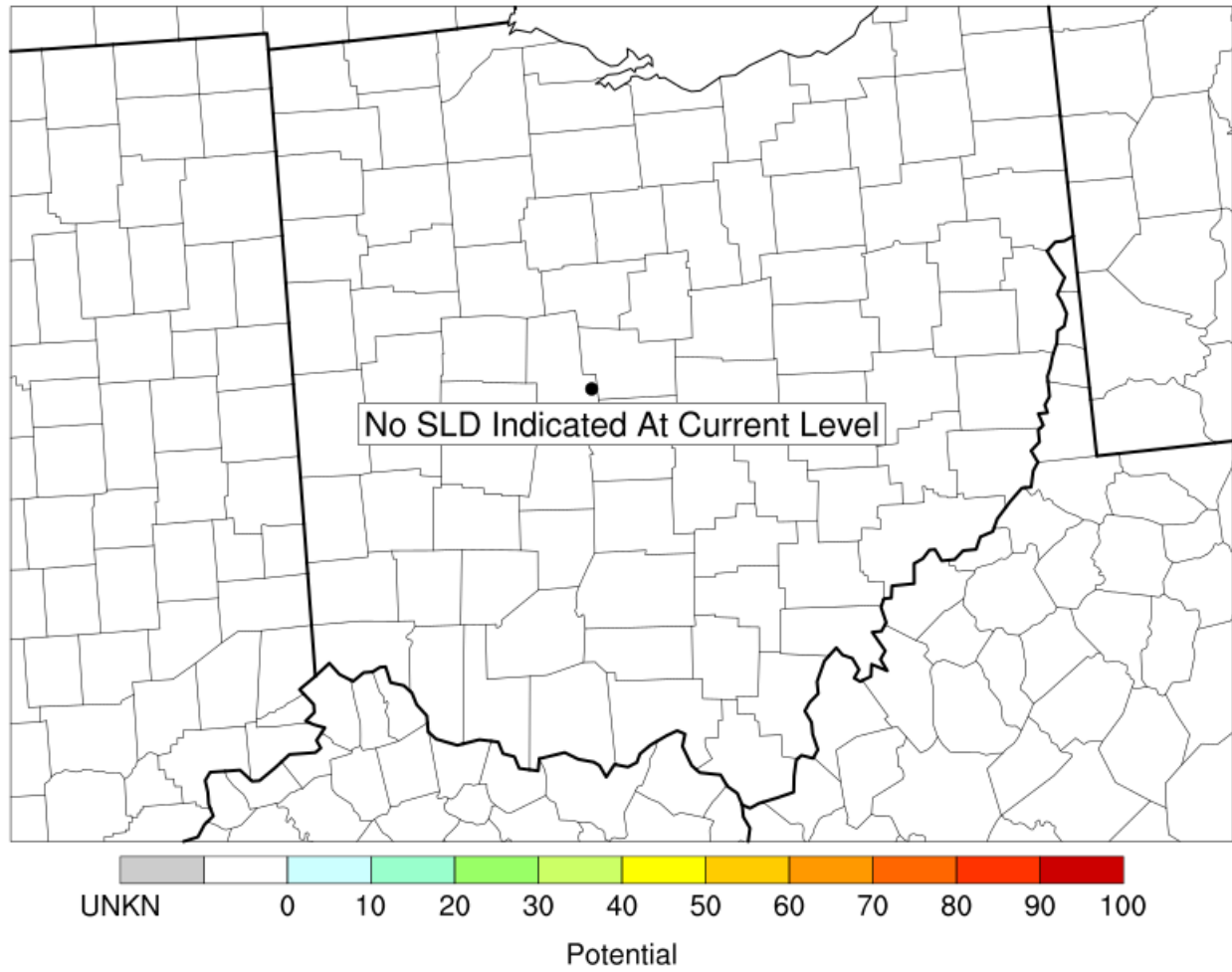


ICING PROBABILITY at FL 020

03 Hour forecast valid at: 3/17/2019 2200 UTC

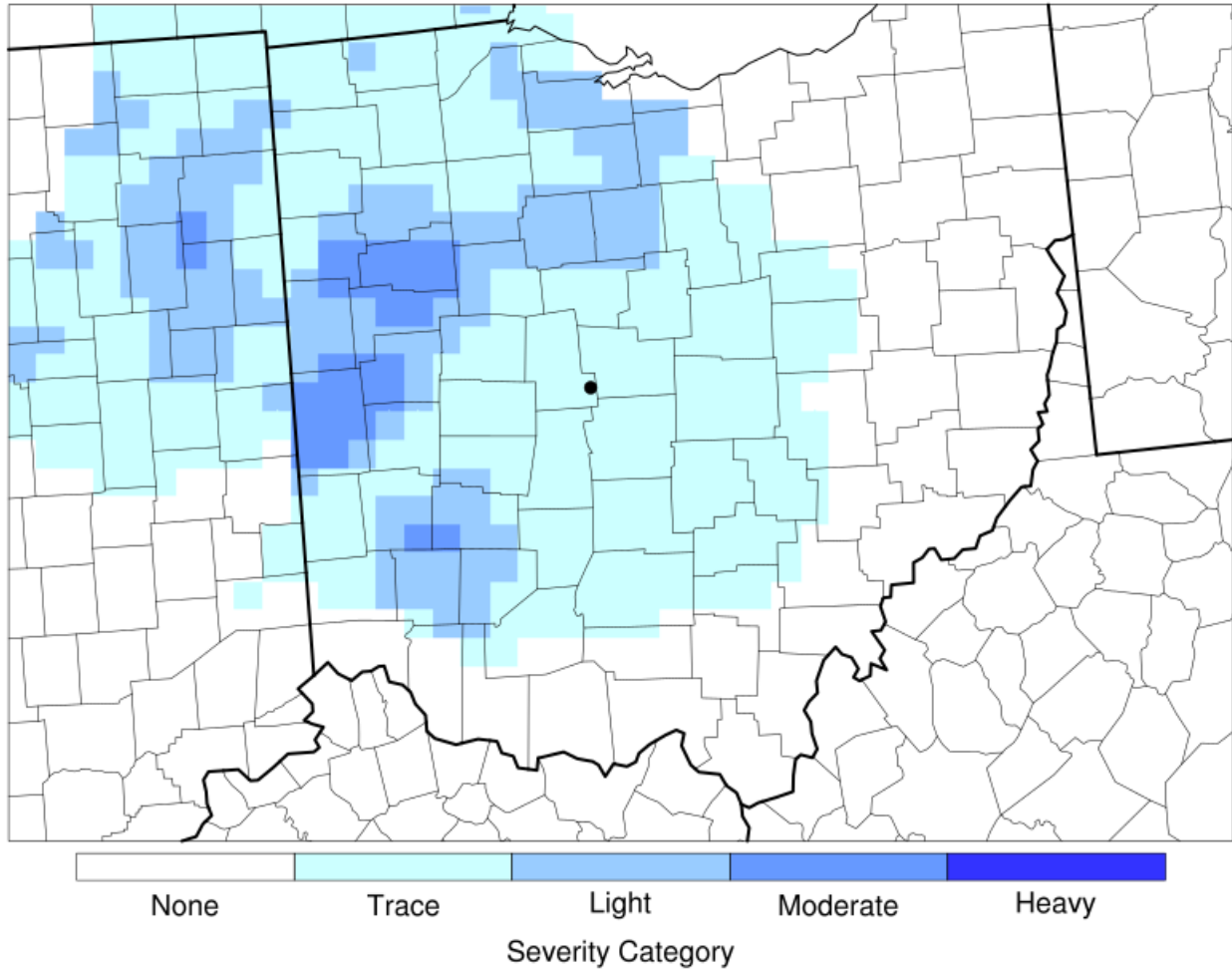


SUPERCOOLED LARGE DROP POTENTIAL at 0300Z our forecast valid at: 3/17/2019 2200 UTC



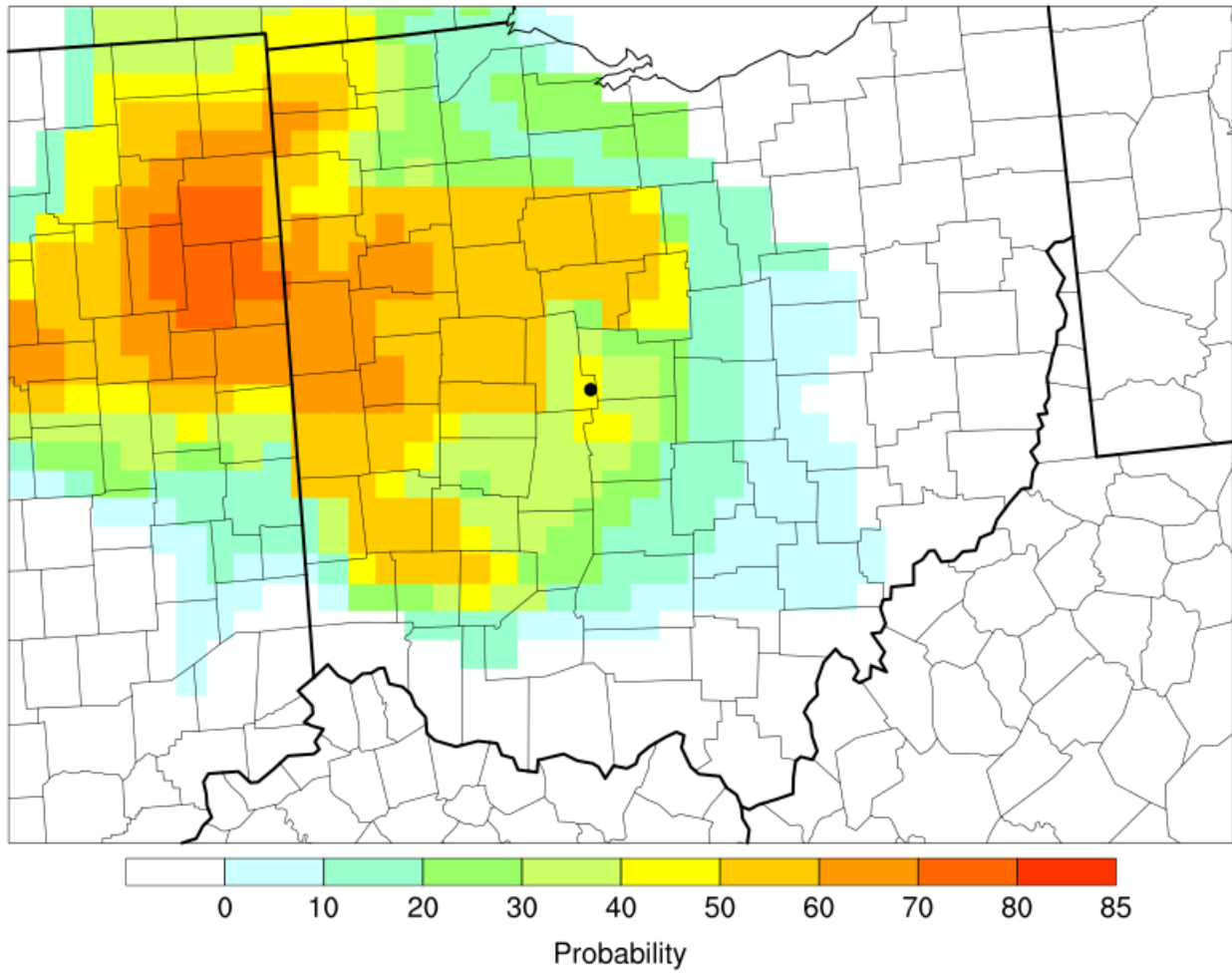
ICING SEVERITY at FL 030

03 Hour forecast valid at: 3/17/2019 2200 UTC



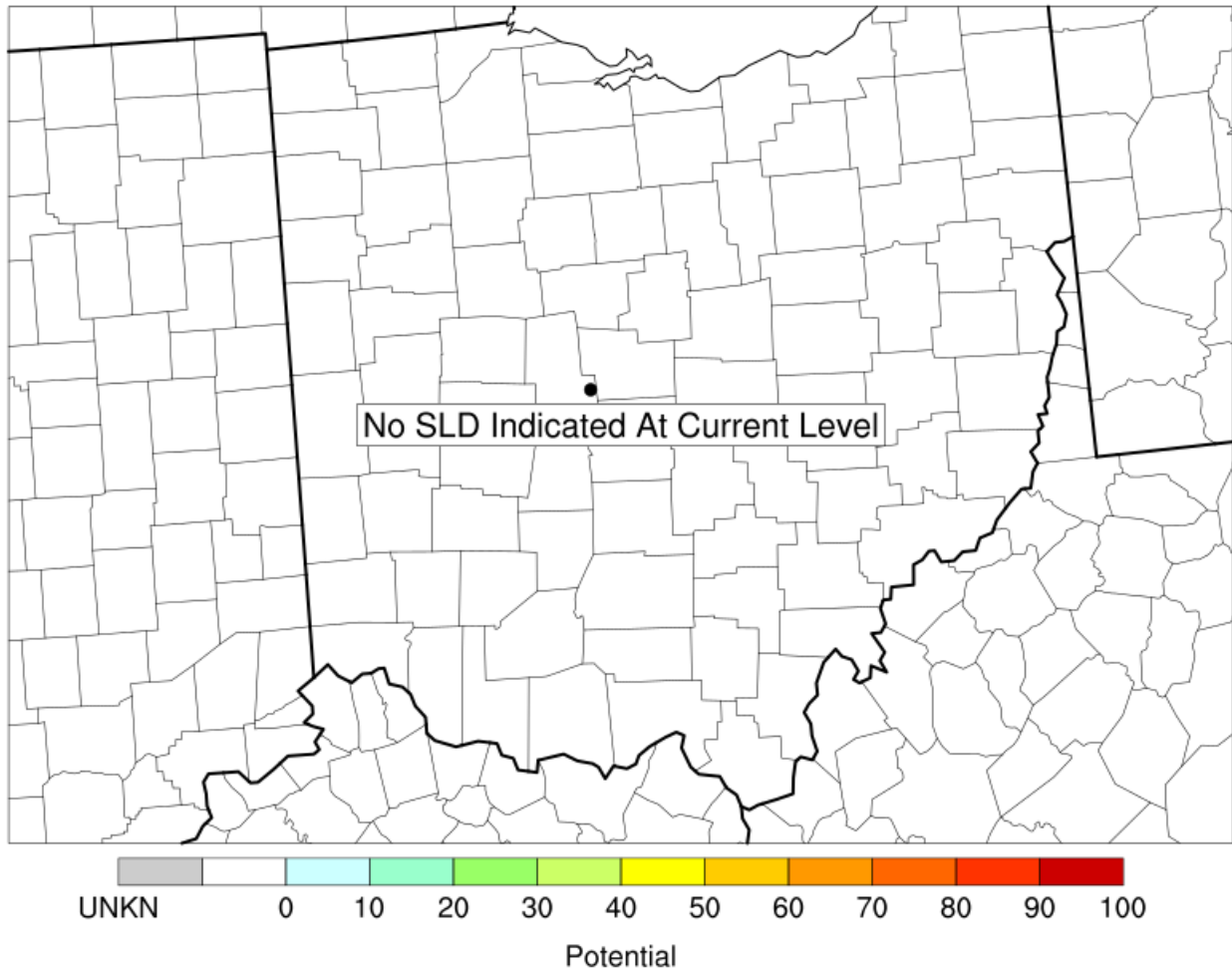
ICING PROBABILITY at FL 030

03 Hour forecast valid at: 3/17/2019 2200 UTC



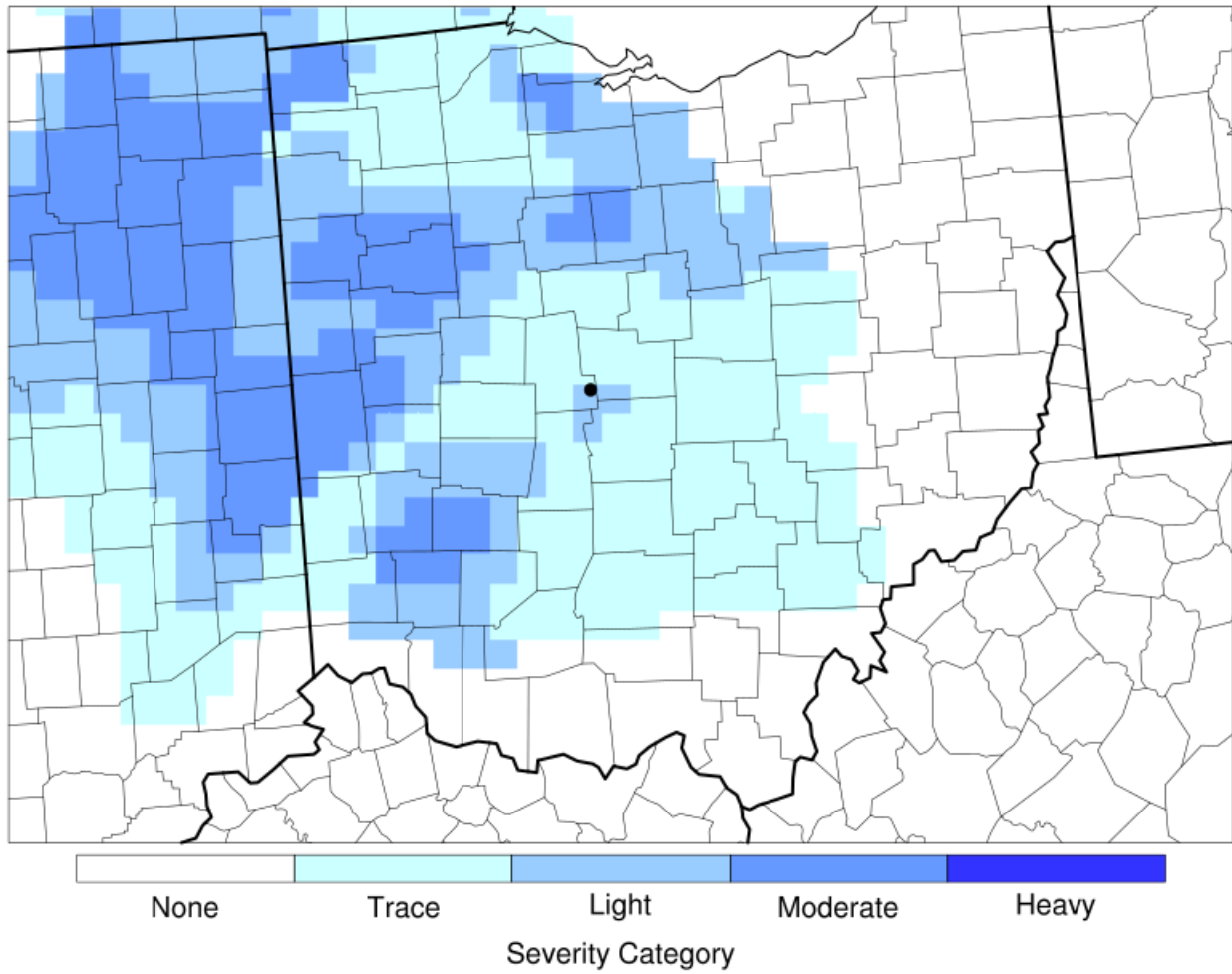


SUPERCOOLED LARGE DROP POTENTIAL at 0300Z our forecast valid at: 3/17/2019 2200 UTC



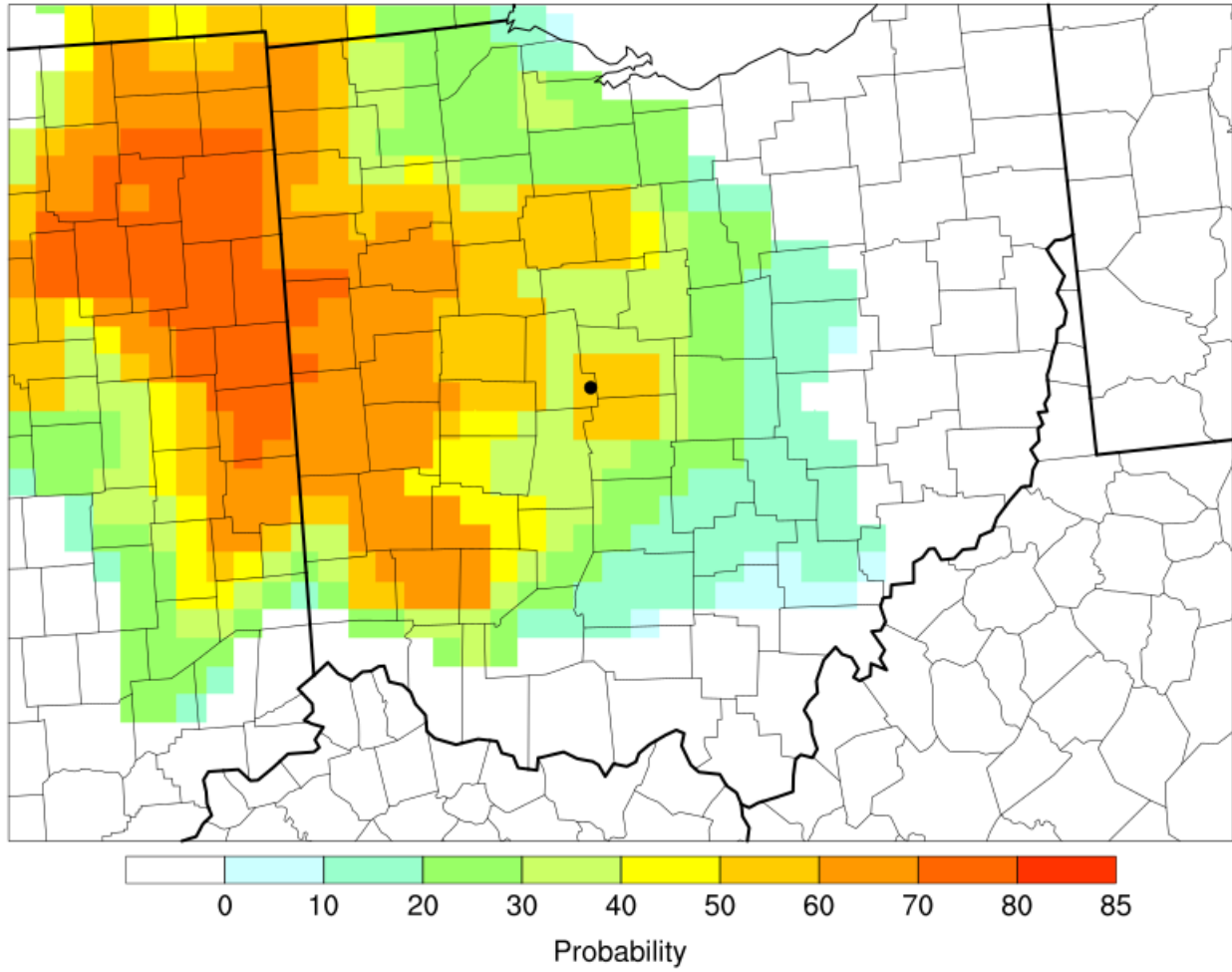
ICING SEVERITY at FL 040

03 Hour forecast valid at: 3/17/2019 2200 UTC

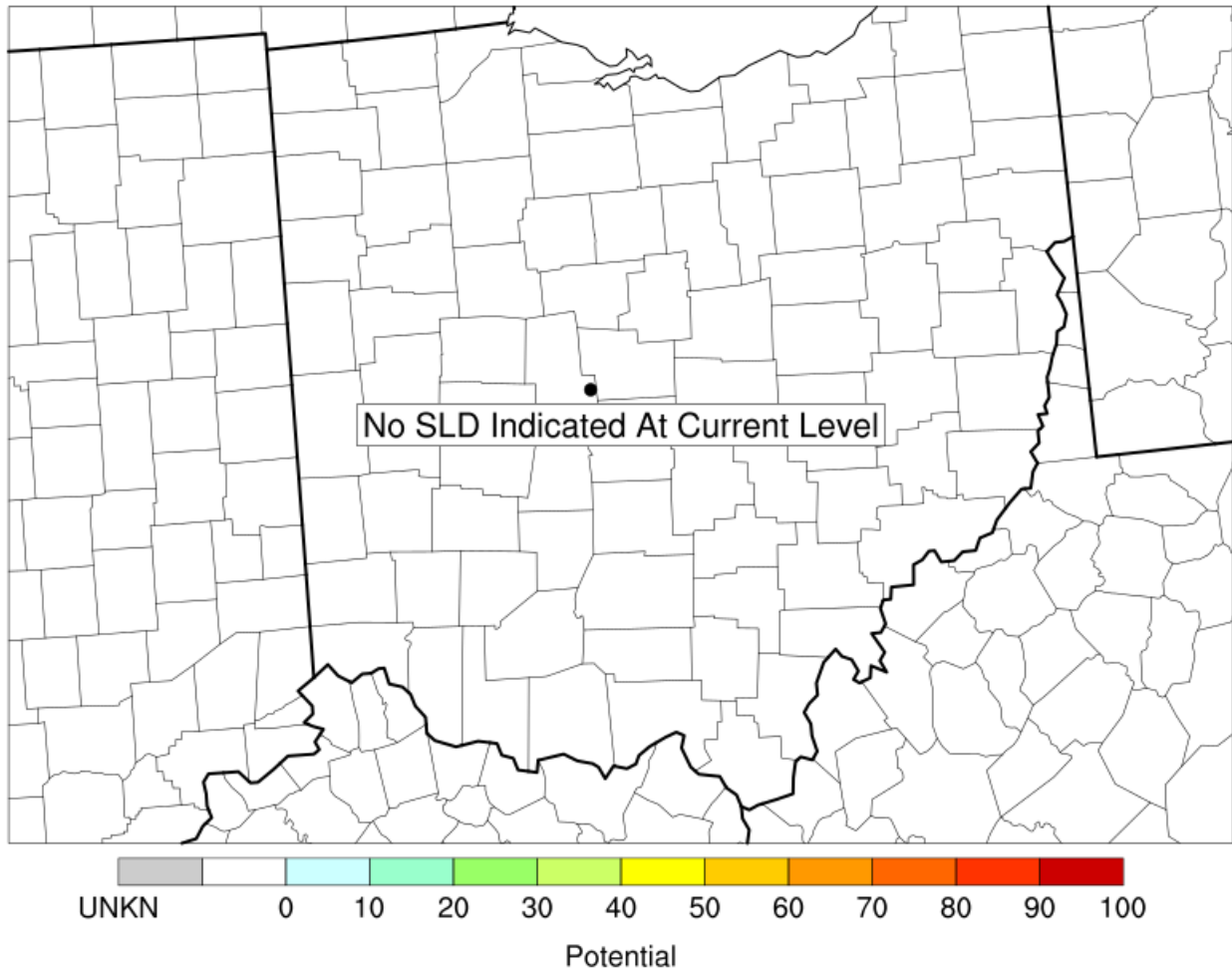


ICING PROBABILITY at FL 040

03 Hour forecast valid at: 3/17/2019 2200 UTC

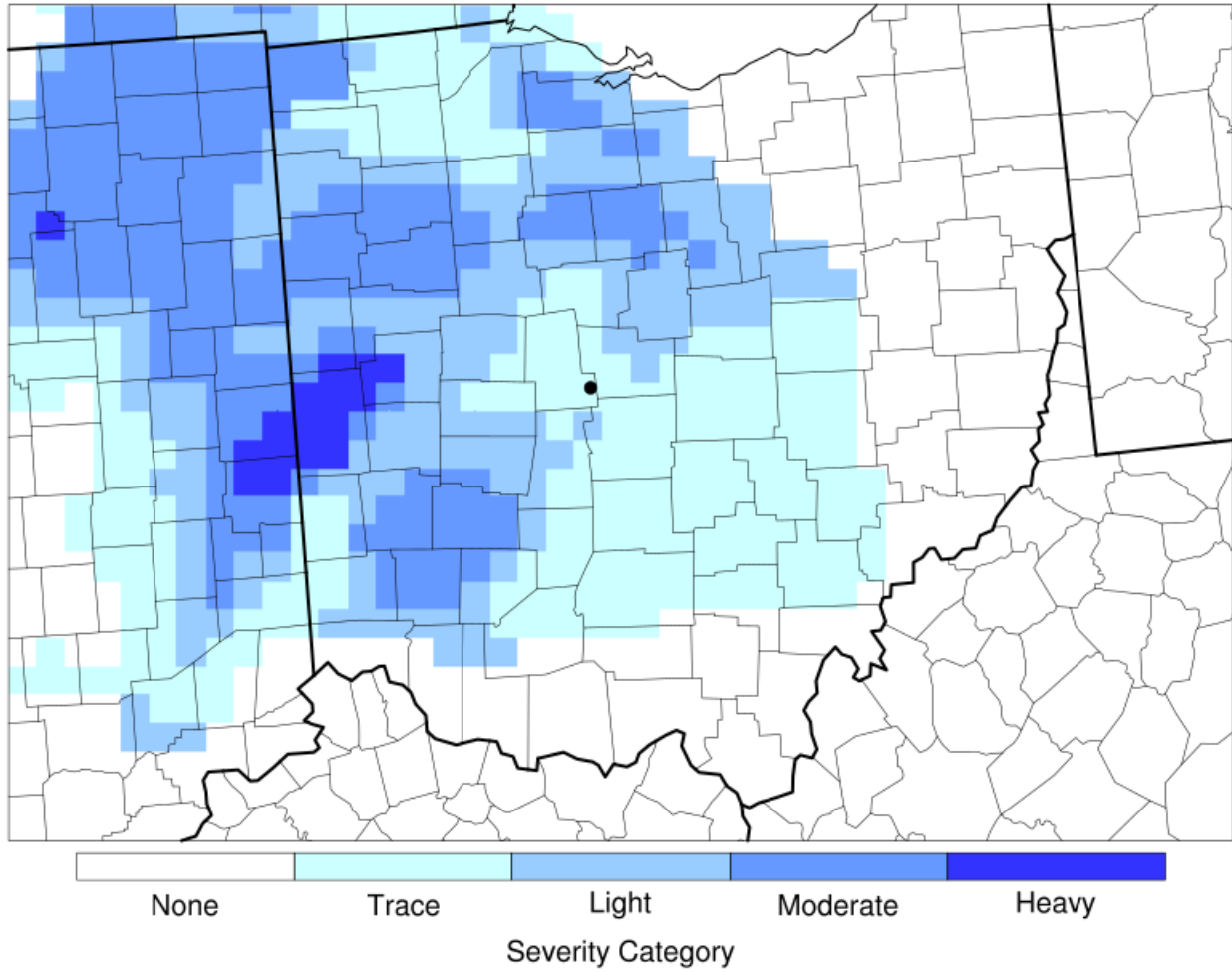


SUPERCOOLED LARGE DROP POTENTIAL at 03040r forecast valid at: 3/17/2019 2200 UTC



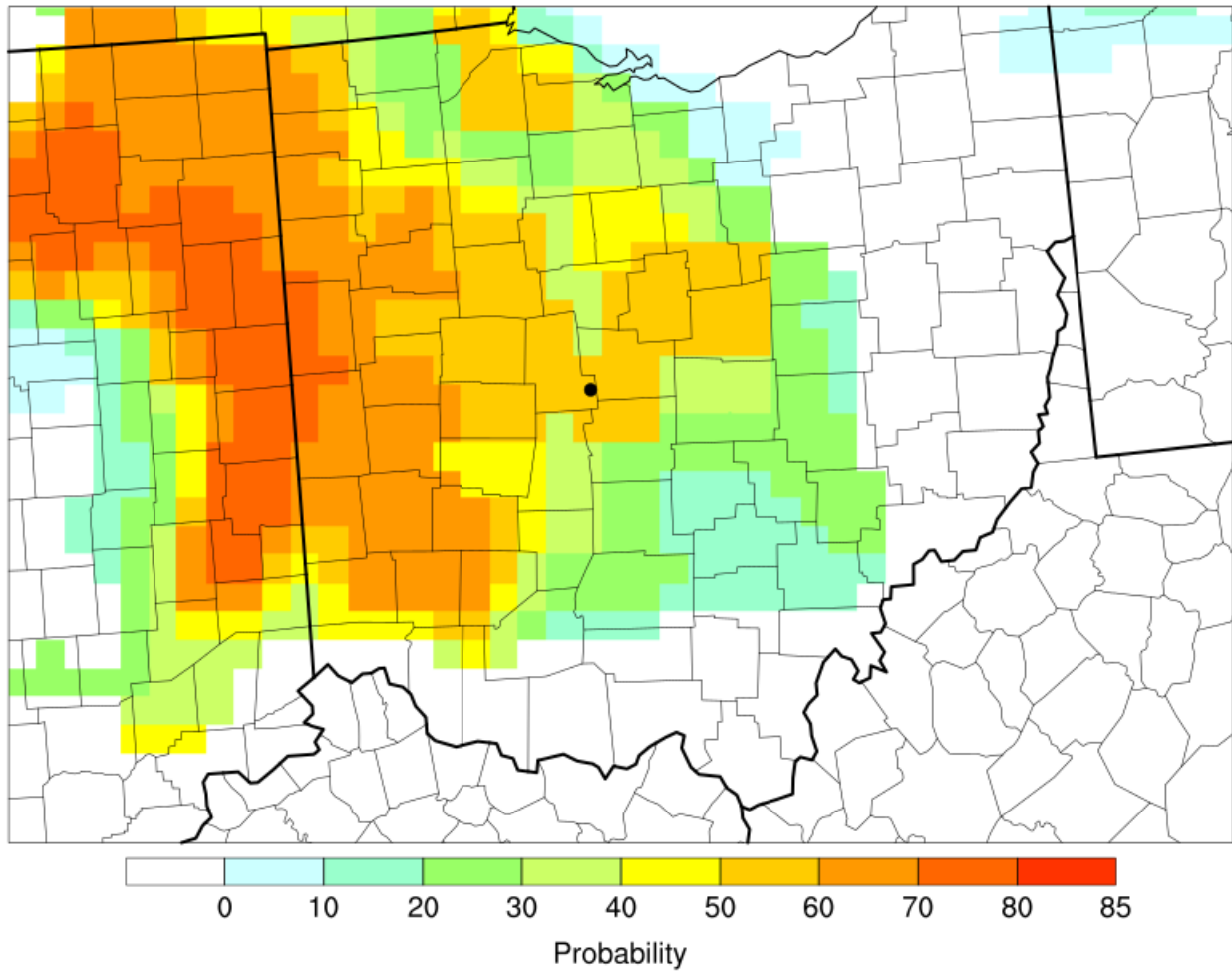
ICING SEVERITY at FL 050

03 Hour forecast valid at: 3/17/2019 2200 UTC



ICING PROBABILITY at FL 050

03 Hour forecast valid at: 3/17/2019 2200 UTC



SUPERCOOLED LARGE DROP POTENTIAL at 030500Z our forecast valid at: 3/17/2019 2200 UTC

