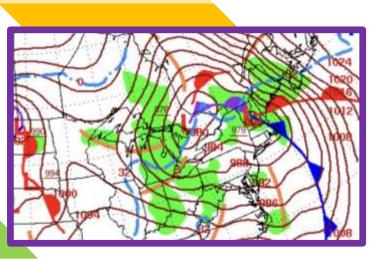
A Tale of Three Winter Sterms

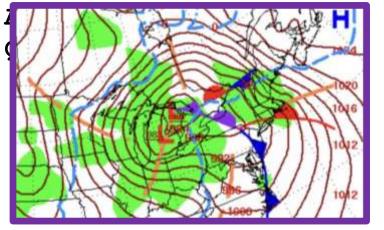
The Winter Storm Playbook: offers messaging 5 days in awagner Goal: improve mitigation and preparedness prior to a severe winter event

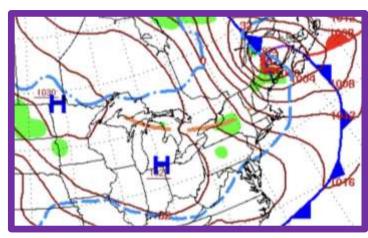
Affected southern Ontario on January 15th:

on January 9th then Quebec on January 10th



Three key events: 2. January 12th - 13th, 3. March 21st: 1. January 9th - 10th: followed by snow squalls Affected eastern Quebec





Storms 1 and 2 were predicted accurately but blowing snow and the amount of snowfall from storm 3 were underestimated. There were some late alerts for storm 3

- "We're only as good as the models" models predict most storms well, which helps us improve mitigation and prepare for an event
- Model uncertainty leads to hesitancy, thus delaying alerts
- Therefore, when there is model uncertainty, it is recommended to emphasize reduced confidence in early messaging until consolidation improves