

2024

# Weather

The Good, The Bad and The Ugly



Toronto Pearson



WESTJET



NAV  
CANADA

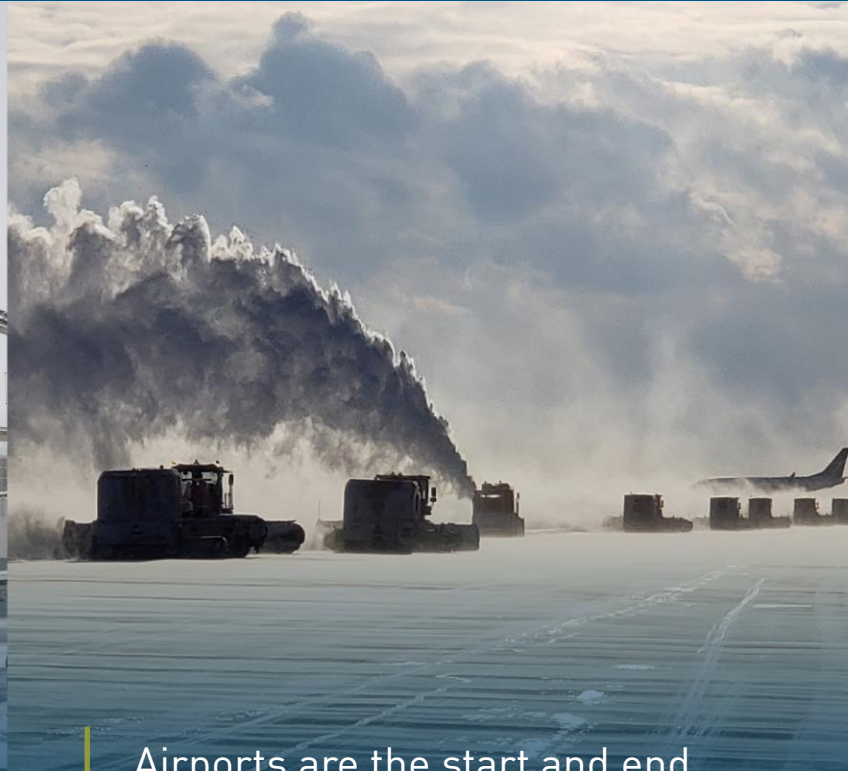


SETTING THE STAGE

# Weather and Airports



Weather is responsible for 70% of all aviation-related delays



Airports are the start and end points for every flight – how weather impacts this, and how we plan and respond to events echoes across the system as a whole



Setting the stage for success: collaborative industry-wide approach to planning and execution



# Common Understanding

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- Climate conditions are changing
- Perspective is key
- Expanded thinking means anticipating problems better
- **Our success is shared**

# Introductions

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**01** Beth Henschel



**02** Paul Atwal



**03** Paul Shore



**04** Richard Gannon



**05** Sophie Splawinski



# **AVMET is Born...**

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Aviation Meteorological Reference |  
NAV CANADA Aviation Meteorology  
Reference



# Picture This Scene

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## THINK ABOUT

- Strategies
- Weather sources/data
- Questions
- Concerns
- Options

## BEFORE – DURING – AFTER

Each team, customer, stakeholder... has their own plan(s) for their specific operation. Key is how to make them all fit.

# Elements of the Storm

## Assessing Overall Impact

- Start time
- End time
- Intensity
- Variability

“ When will it start, when will it end, how bad will it be, and how sure are we of all this?”

## Individual Elements

### TEMPERATURE .....

Air, surface

Precipitation behavior, runway treatment, deicing

### VISIBILITY .....

Daytime, nighttime

Impacts on HOT (non-SureWX), snow removal crews, possible LVOP/RVOP

### WIND .....

Magnitude & direction

RWY orientation, deicing, accumulation on surfaces

### ACCUMULATION .....

- Rate
- Type
- LW
- intensity

Airport capacity (ROT, spacing, snow clearing ops, etc.), HOT, treatment, ramp crews, PAX

### OTHER CONSIDERATIONS .....

- Convection
- SIGMETs
- PIREPs
- Ice Shedding Requirements

Enroute/TCU impacts, airline SOPs, ROT

## Why They Matter

# How Have Things Evolved

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Communication  
strategies – ATFM

System-wide balance (RWY  
vs APRON vs HOT)

- LWE
- Staffing

DEC 2022

JAN 2024

Communications  
strategies - Airport  
community

Equipment  
changes/purchases

- D-TMI



# Looking to the Future

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- Predictable ROT and renewals
- DTMI programs
- Proactive communications in snow removal
- Importance of historical events and data
  - Understanding the why
- Understanding flow – capacity/demand for arrivals & departures
- System-wide balance: RWYs vs. APRON clearance vs. HOT
- System-wide impacts & education: collaborative growth



Weather: The Good, the Bad and The Ugly

# 5 MIN STRETCH BREAK



# So, What Does It Mean to You?

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PANEL DISCUSSION





**So, What's Next?**

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