

A night-time photograph of an emergency scene. Two ambulances are parked on a wet, reflective surface. The ambulance on the right has the word 'AMBULANCE' and the number 'E3388' visible. Several people, including one in a high-visibility vest with a white 'X' on the back, are standing between the vehicles. The scene is illuminated by the red and blue emergency lights of the ambulances.

Applying the Sendai Framework for Disaster Risk Reduction

Land Acknowledgment

We are on the traditional and unceded territory of the musqueam, Squamish and tsleil-waututh people.

UN Sendai Framework for Disaster Risk Reduction

The goal of Disaster Risk Reduction:

Prevent new and reduce existing disaster risk through the implementation of integrated and inclusive programs that prevent and reduce hazard exposure and vulnerability to disaster, increase preparedness for response and recovery, and thus strengthen organizational resilience.

The Sendai Framework includes four priorities:

- Understanding disaster risk.
- Strengthening disaster risk governance to manage disaster risk.
- Investing in disaster risk reduction for resilience.
- Enhancing disaster preparedness for effective response and to "Build Back Better" in recovery, rehabilitation, and reconstruction.

Modernized emergency management legislation

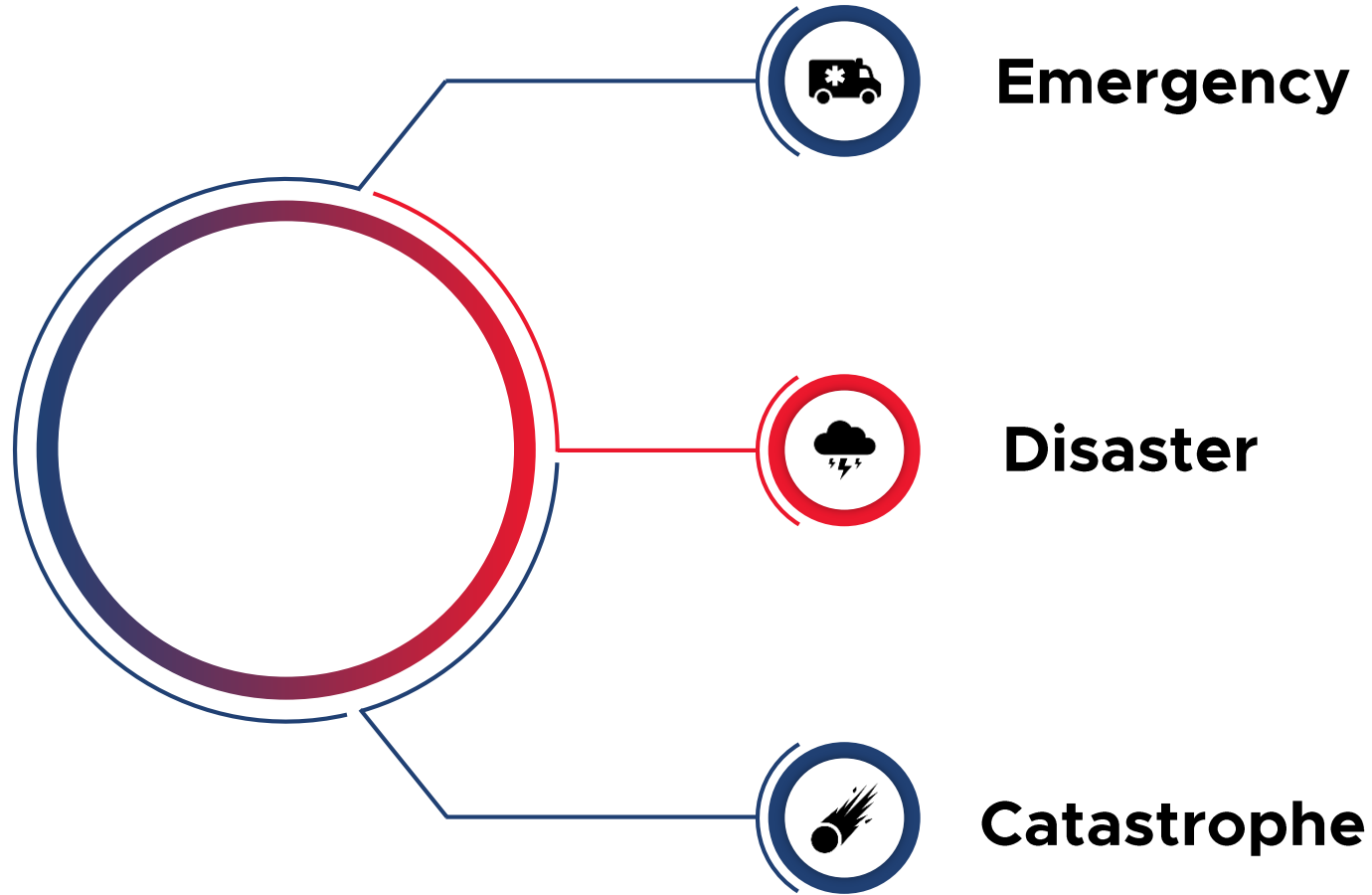
The EPA is being updated to reflect the changing nature of emergencies and disasters. The changes will improve how we manage emergencies like pandemics, floods and wildfires. They also address the impact these events have on people and communities.

- Follow the proposed changes for [modernized emergency management legislation](#)

The changes will address new standards and best practices:

- The [Sendai Framework for Disaster Risk Reduction](#)
- The [UN Declaration on the Rights of Indigenous Peoples \(PDF, 170KB\)](#)
- The [Draft Principles that Guide the Province of British Columbia's Relationship with Indigenous Peoples \(PDF\)](#)
- [Addressing the New Normal: 21st Century Disaster Management in British Columbia \(PDF, 16.2MB\)](#)
- Lessons learned from our response to COVID-19, recent floods and wildfires

Definitions



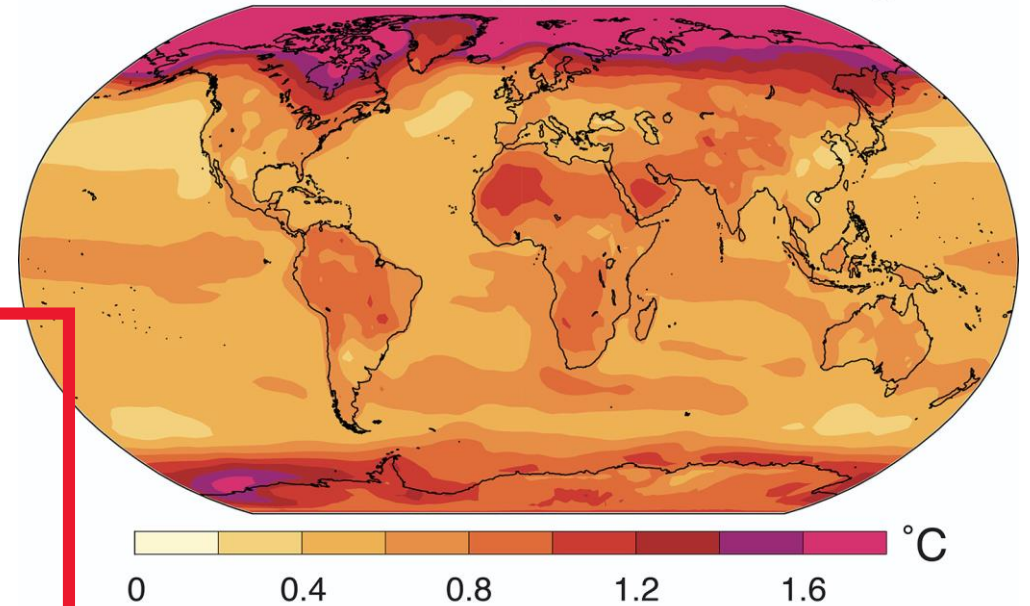
Linear & Complexity



Tame Problems

- Well-defined
- Definite stopping point
- Objectively evaluated as right or wrong,
- Belong to a class of similar problems that are all solved in a similar way,
- Have solutions that can be easily tried

Change in Annual Temperature
from historical anthropogenic climate forcing

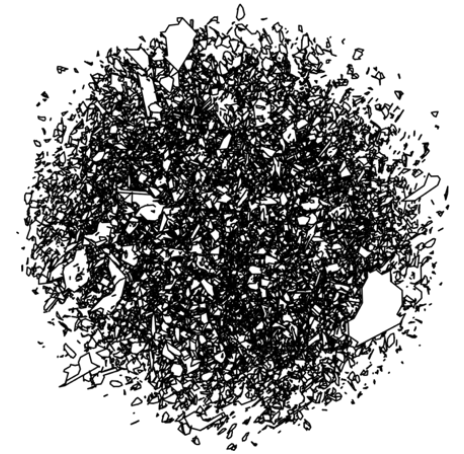


Wicked Problems

- Interconnected and not easily geographically defined or contained
- No stopping point
- Spectrum of answers might be applied, with some better than others
- full scope of the problem(s) cannot be understood until they are solved
- It is impossible to test solutions



Intractable



Factors that make a Disaster:

Critical Infrastructure

Fuel, Communications, Transportation Corridors

Patient Destination

Full or Destroyed Hospitals

Patient Surge

Pandemic*

Heat Dome

*Complexity of patient care

Staff Shortage

Not Enough Staff To Maintain Out Of Hospital Care

Move to a table:

- **4 to 6 per table**
- **Quick table introduction**

Instructions



→ **Pick A Note Taker**

Share with room later



→ **Pick A Organization or a Community As An Example**

This will be the case study for this exercise

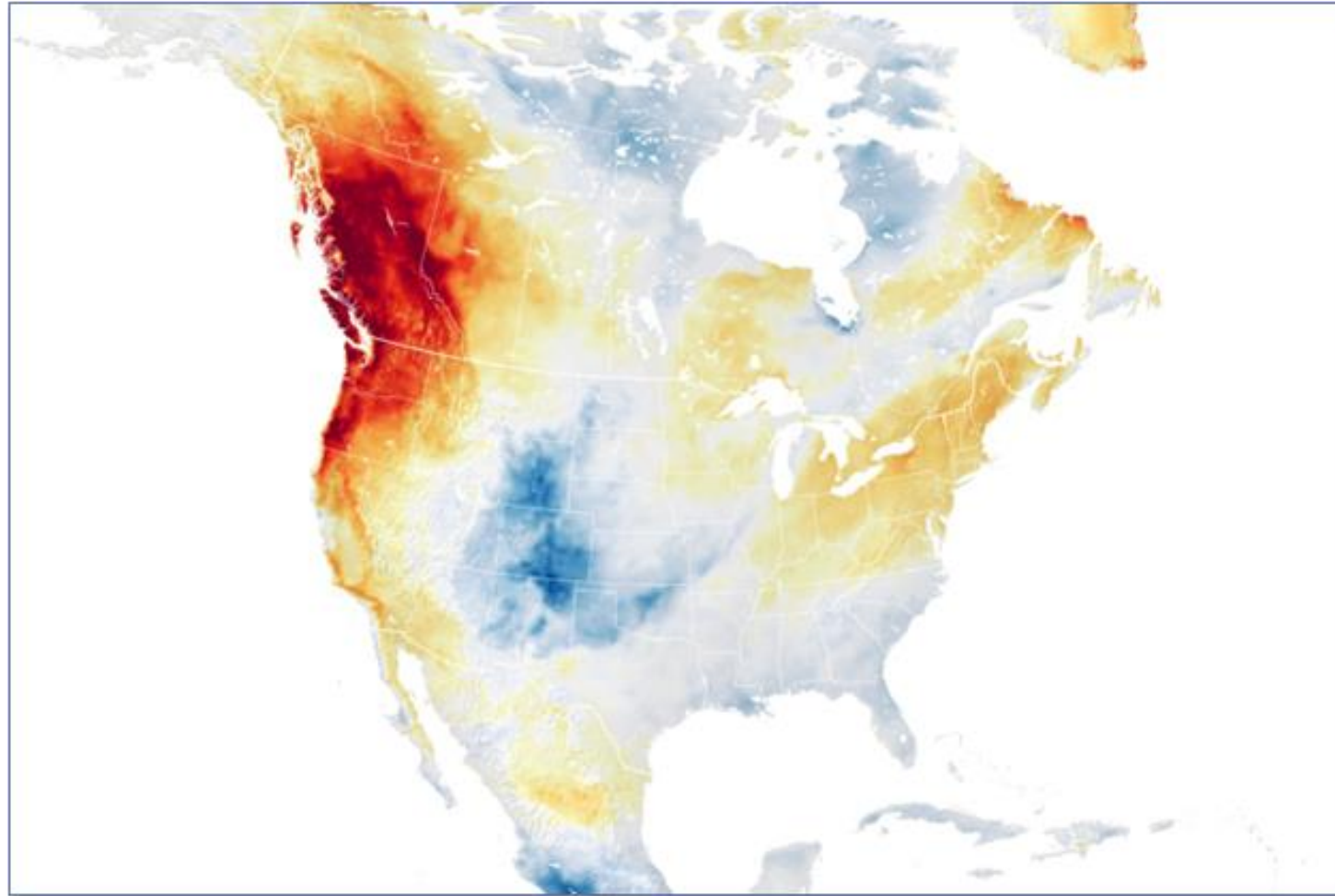


→ **Factors That Make A Disaster**

Top 3 or 4

2021 Heat Dome Overview

The 2021 western North America heat wave among the most extreme events ever recorded globally²



Air Temperature on June 27

1

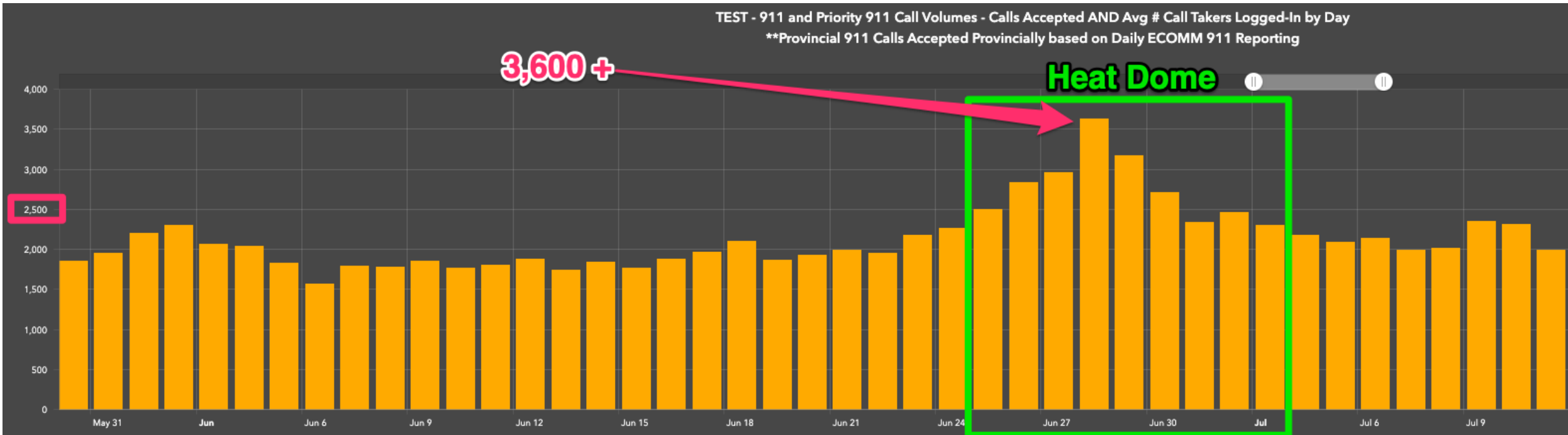
1 NASA, (2021)

2 Thompson et al., (2022)

CALLS INTO DISPATCH

Record-breaking:

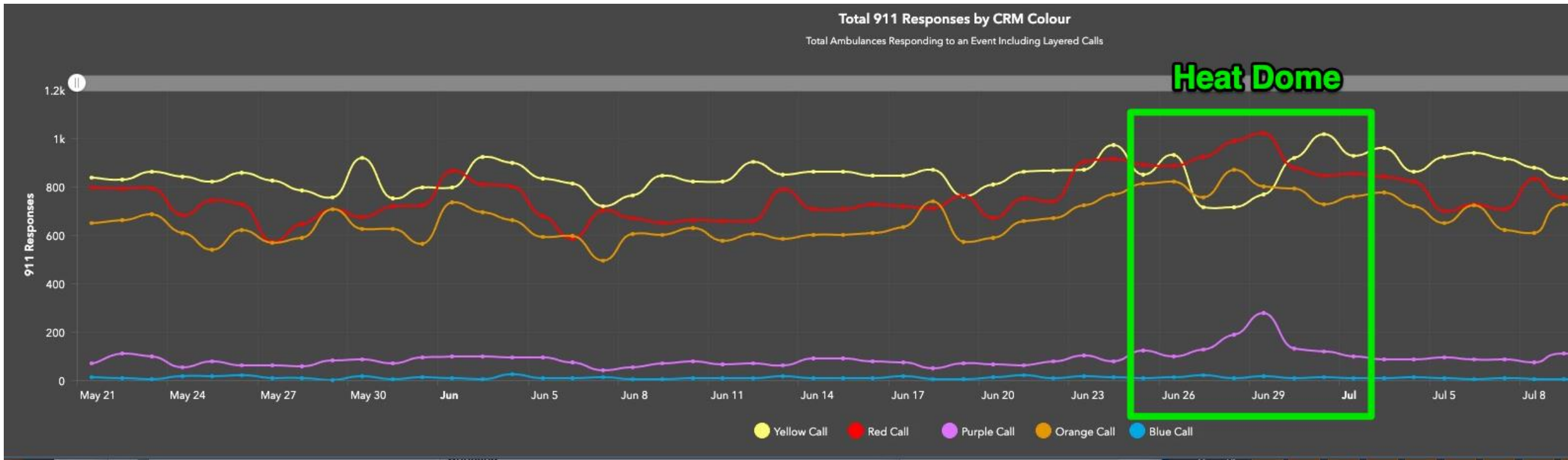
- Calls into dispatch – six days in a row



HIGH ACUITY CALLS

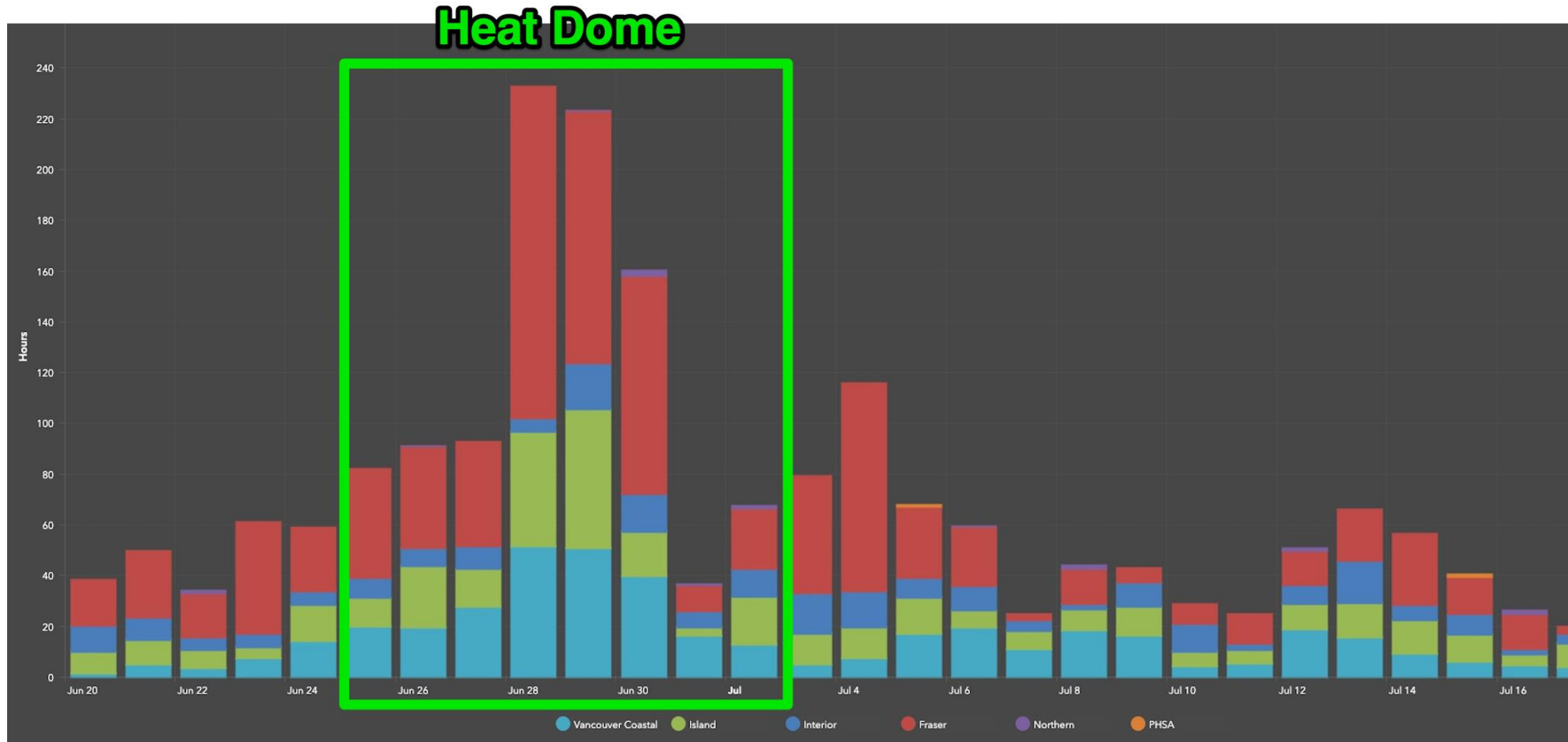
Record-breaking:

- Purple responses
- Cardiac arrests n=65 on 28th, n=88 on 29th



OFF LOAD DELAYS

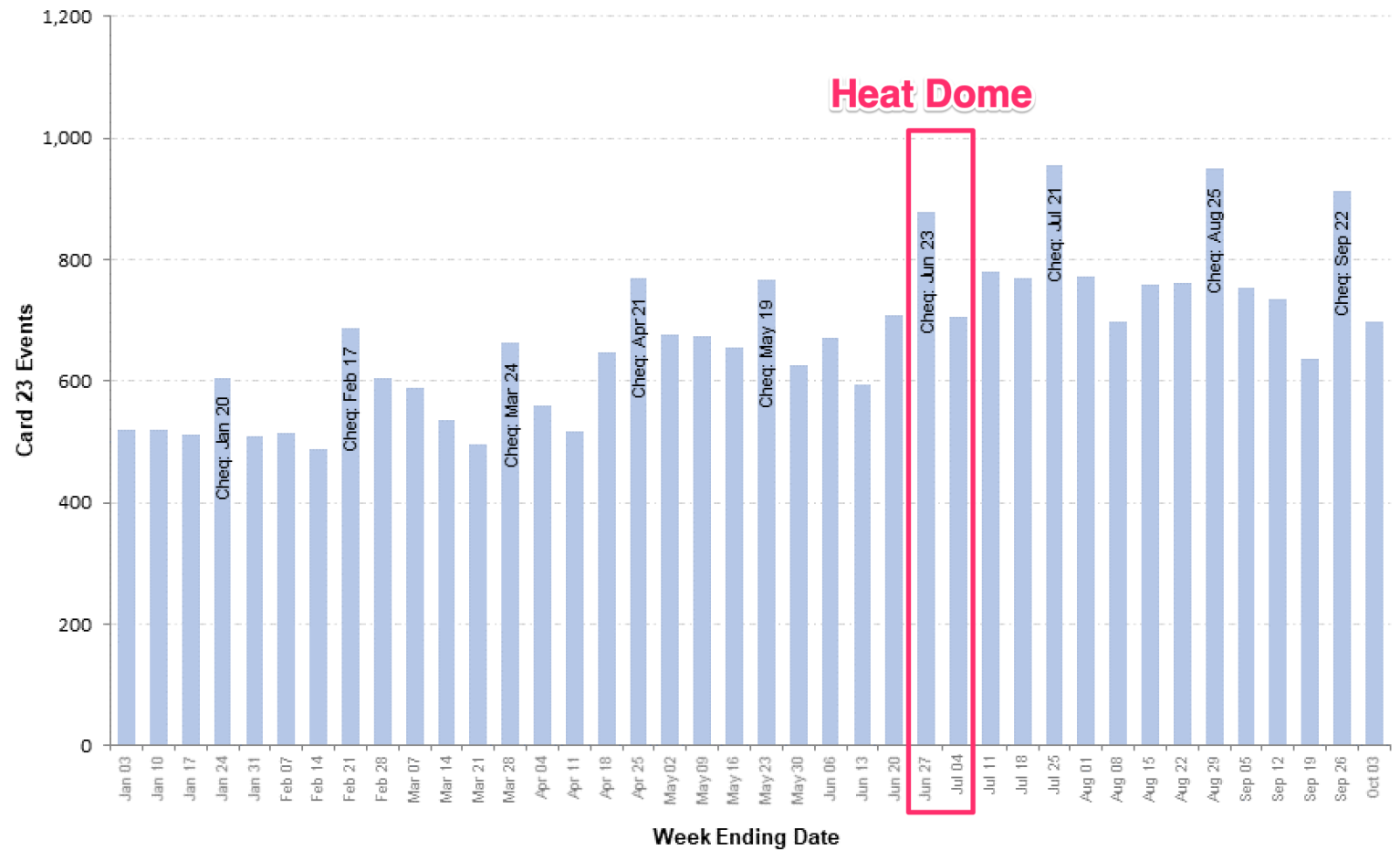
Significant OLD in Fraser (red), Vancouver Coastal (blue), Island (green) Health Authorities



Card 23

Opioid Crisis is an underlying pressure

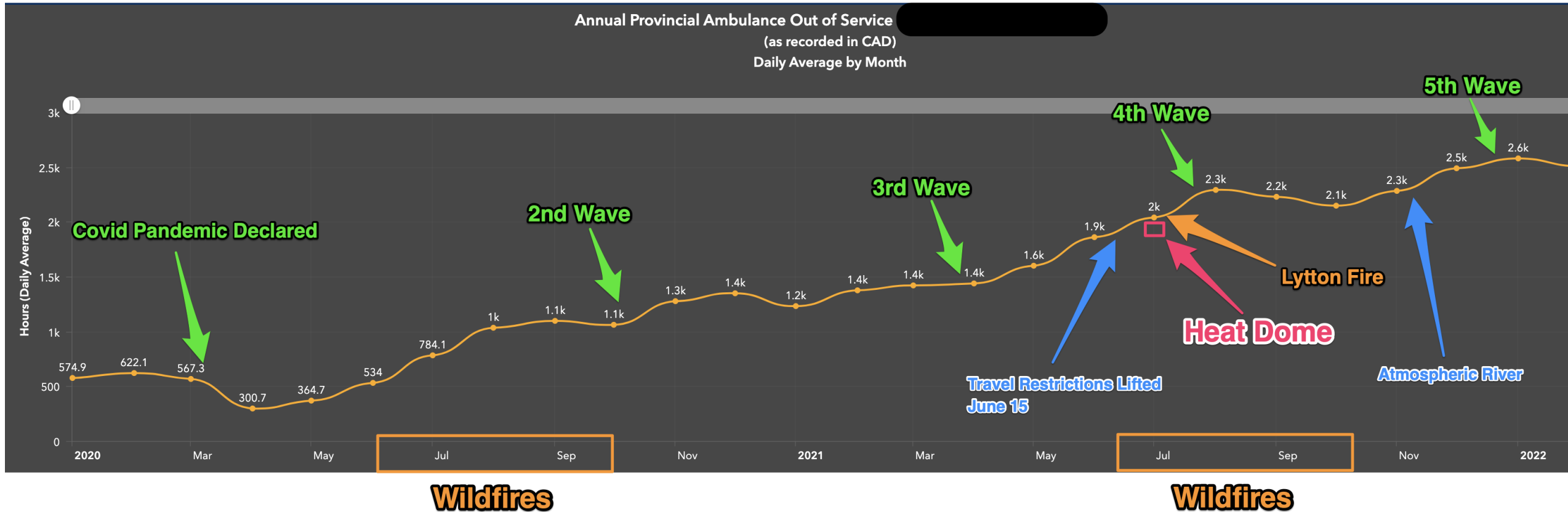
MPDS Card 23 Overdose/Poisoning Events by Week - Province - Oct 03, 2021
with Income Assistance Cheque Dates



Contributing Factors

- COVID
- Wildfires
- Staffing

Annual Provincial Ambulance Out of Service
(as recorded in CAD)
Daily Average by Month



Sendai Framework for Disaster Risk Reduction

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Workshop part 3



→ **Pick A Note Taker**

Share with room later



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This will be the case study for this exercise



→ **How to get \$ and resources**

Top 3 or 4

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Workshop part 4



→ Pick A Note Taker

Share with room later



→ Pick A Organization or a Community As An Example

This will be the case study for this exercise



→ How to build resilience

Top 3 or 4

Brooks.Hogya@bcehs.ca

Thank You