

# WELCOME!

PEACE RIVER AREA MONITORING PROGRAM

## OPEN HOUSE

Mingle, check out the displays,  
and give us your feedback!



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PEACE RIVER AREA MONITORING PROGRAM

# Air Monitoring Programs Overview

**PEACE RIVER OPEN HOUSE**

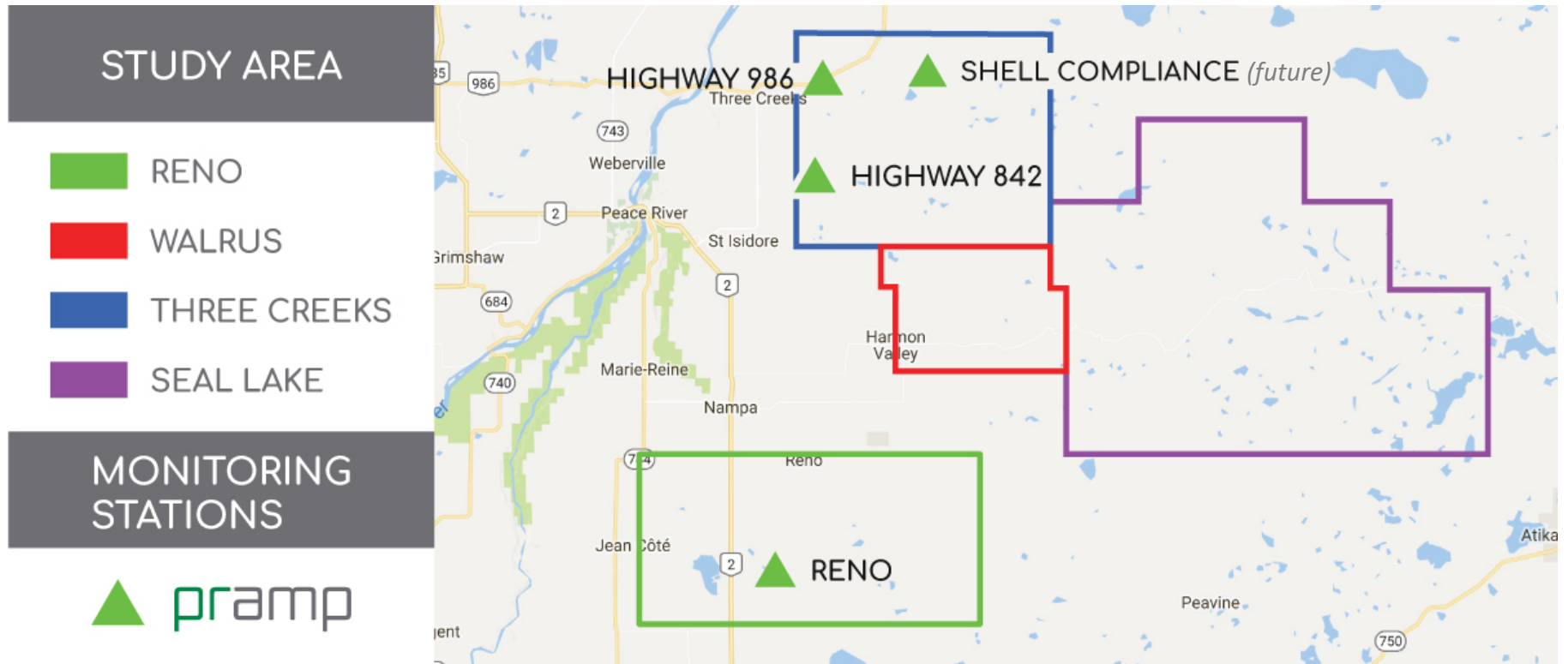
**March 9, 2017**

**Michael Bisaga & Lily Lin**  
**Technical Program Managers**



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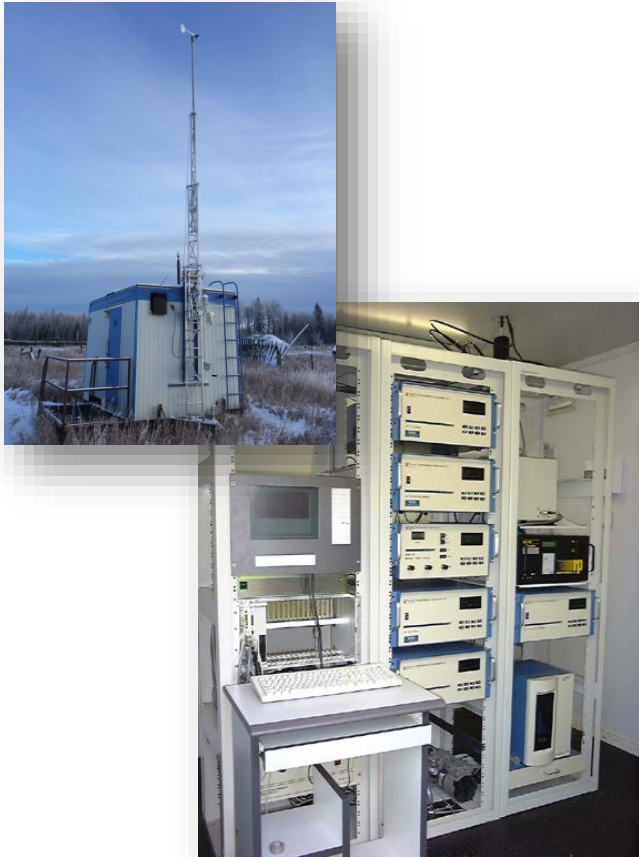
# Monitoring Network



**Continuously Monitored:** Sulphur Dioxide, Total Reduced Sulphurs, Methane, Non-Methane Hydrocarbons, Wind Speed, Wind Direction, Relative Humidity, Temperature, Barometric Pressure

**Intermittently Monitored:** Volatile Organic Compounds

# Monitoring Methods



**Continuous**

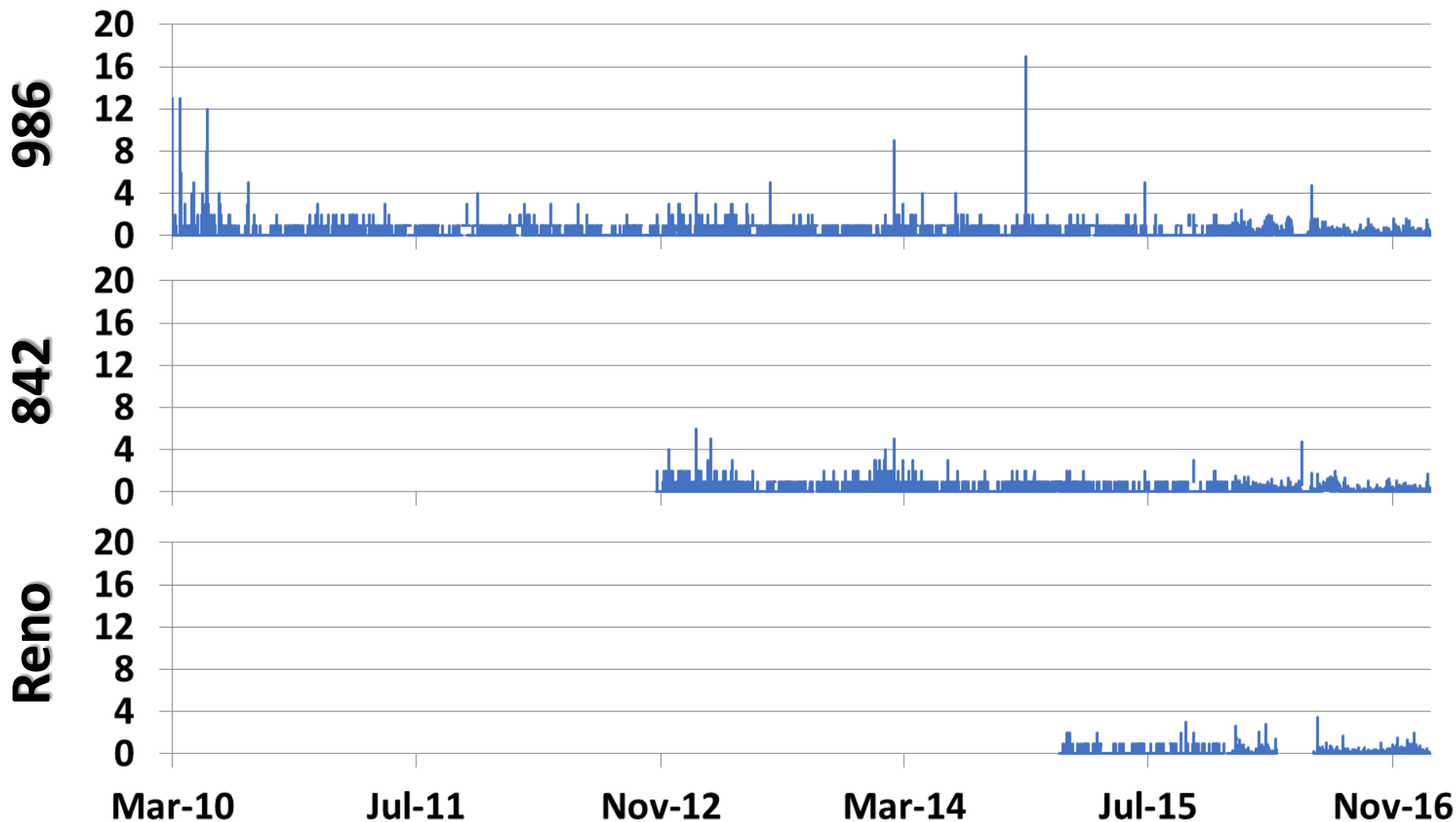


**Canister**

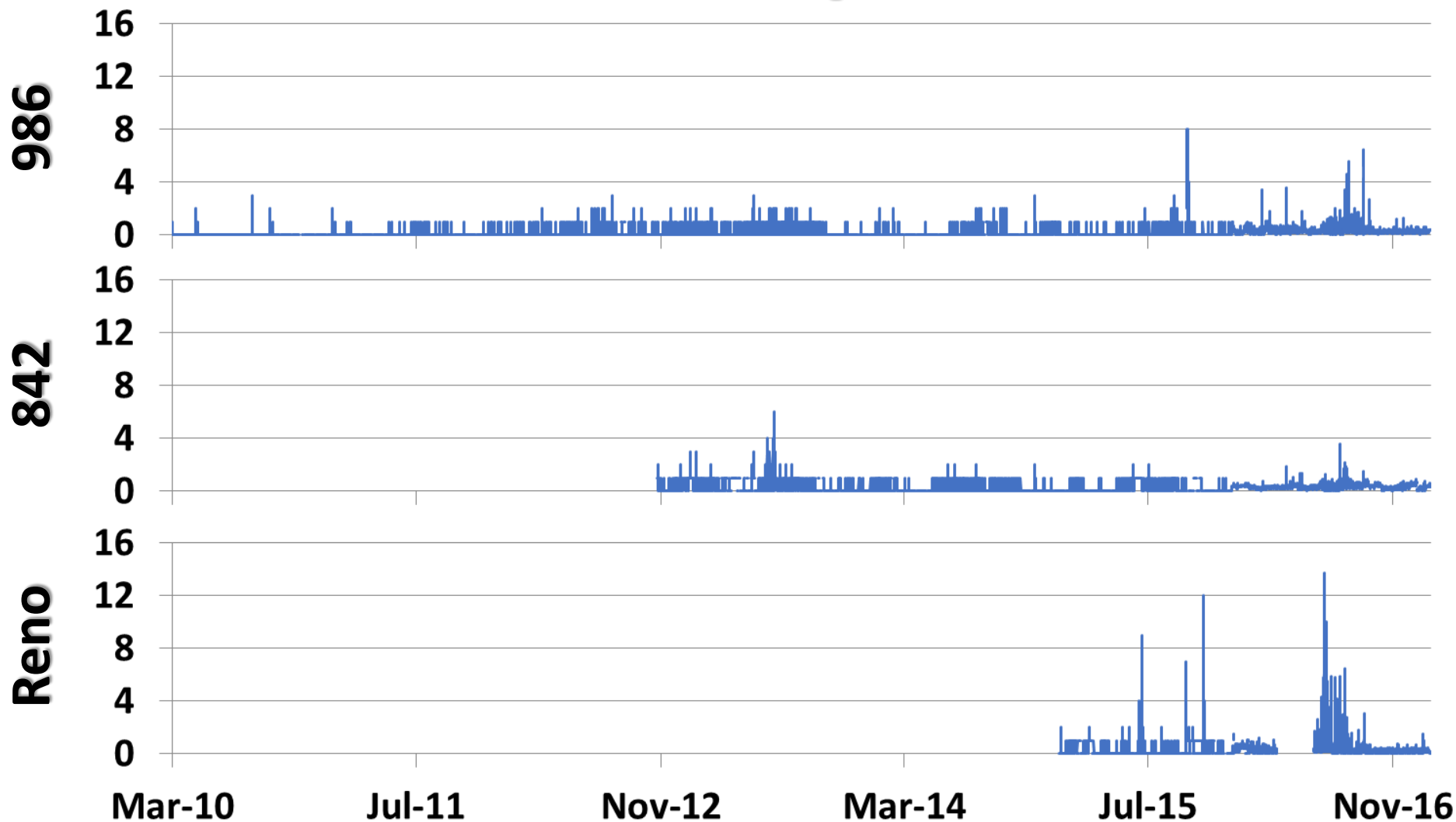


**Passive (future)**

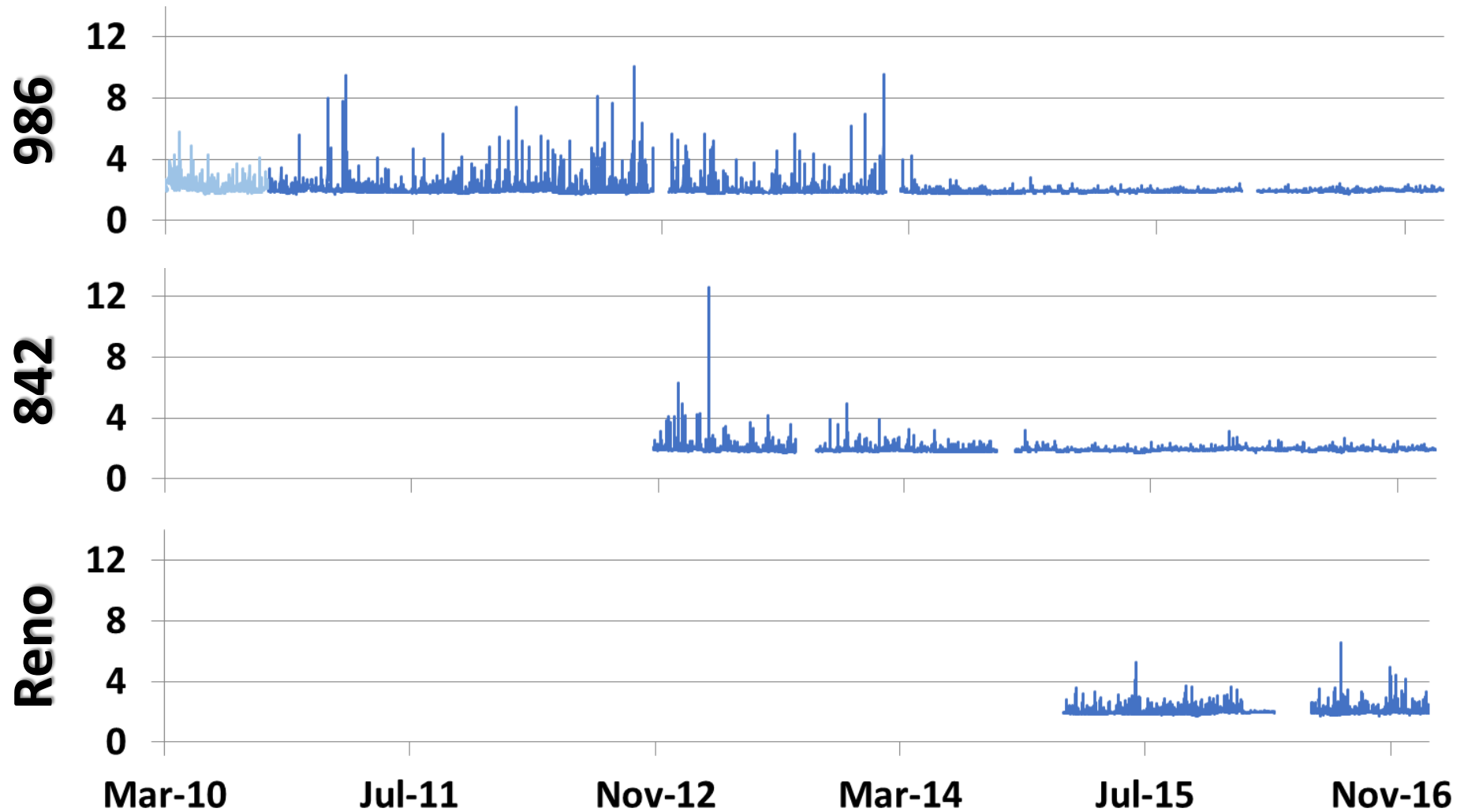
# Sulphur Dioxide (ppb, 1 hr)



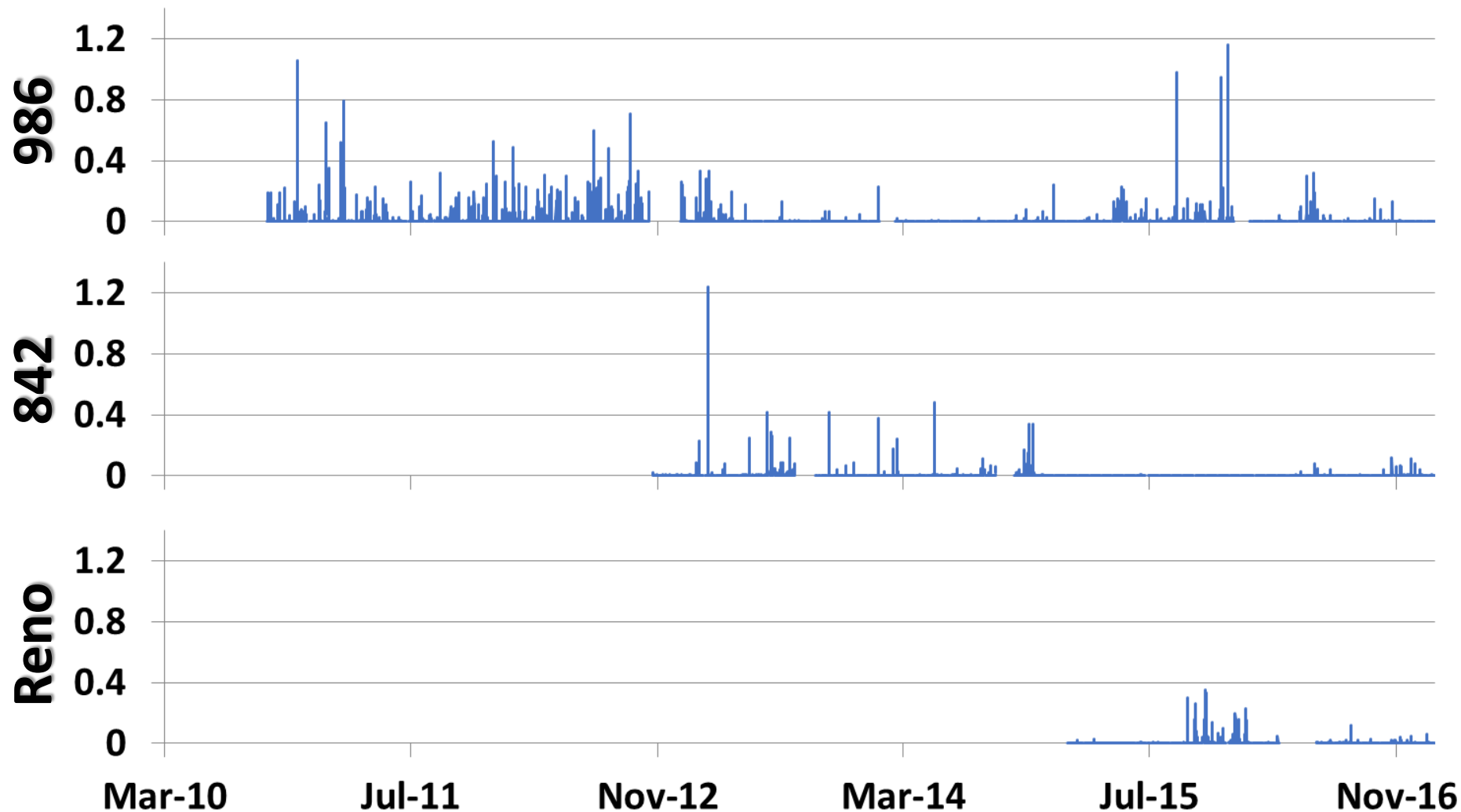
# Total Reduced Sulphurs (ppb, 1 hr)



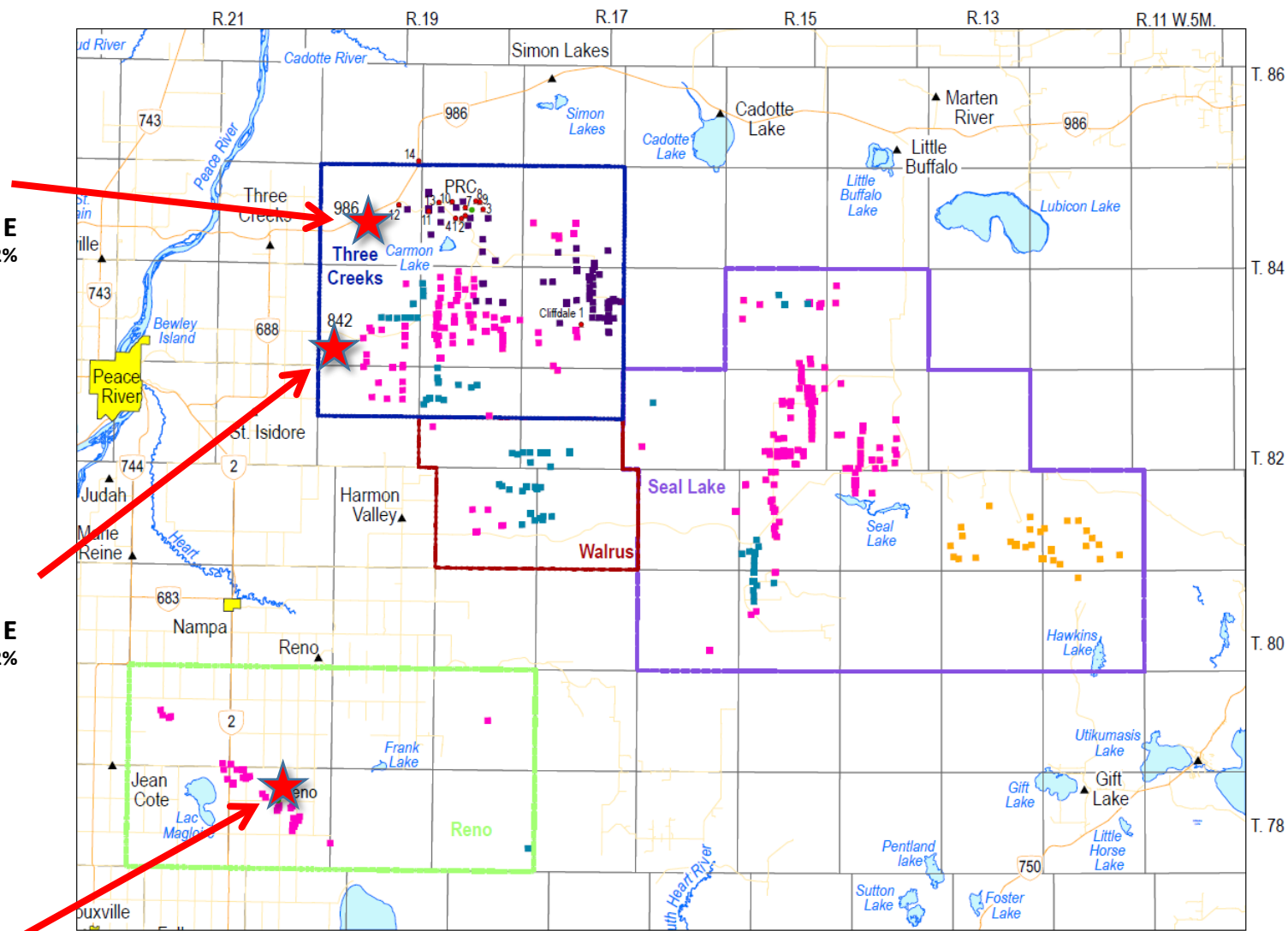
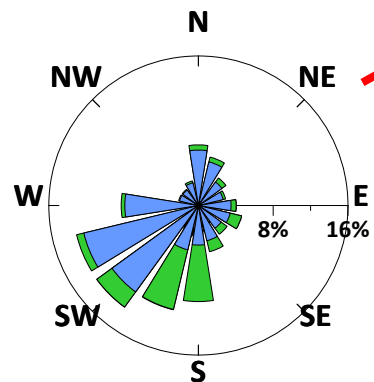
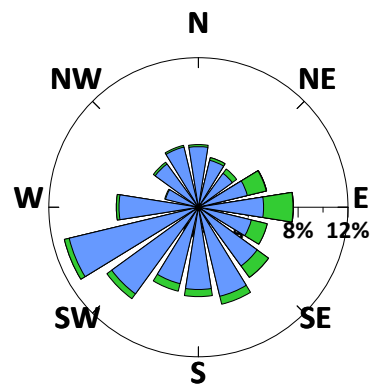
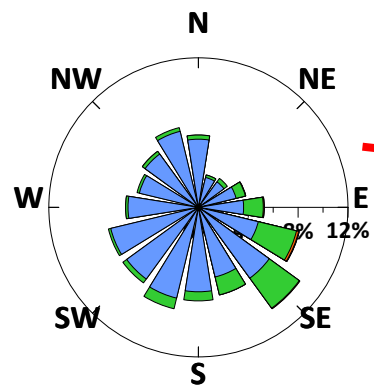
# Methane (ppm, 1hr)



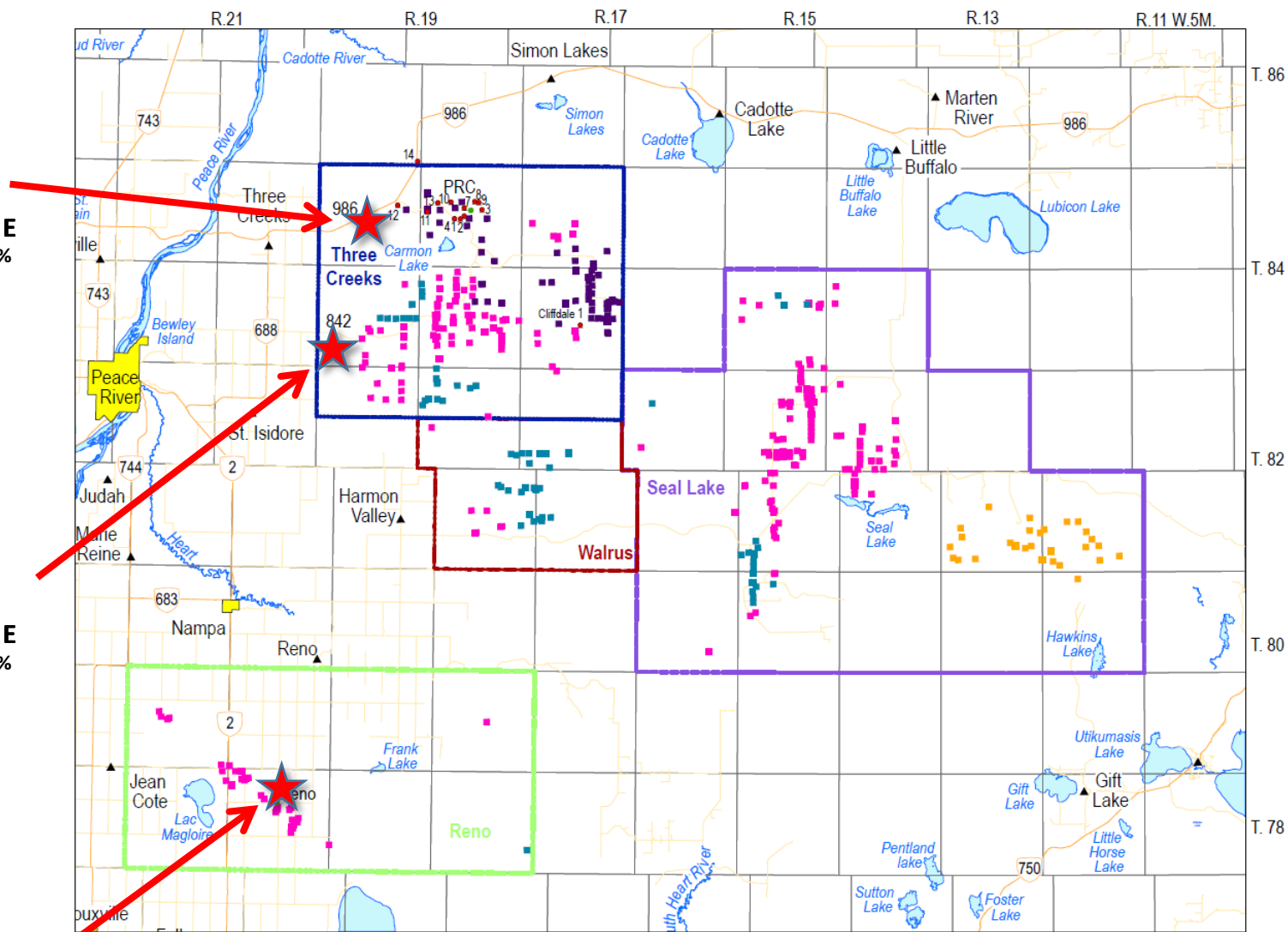
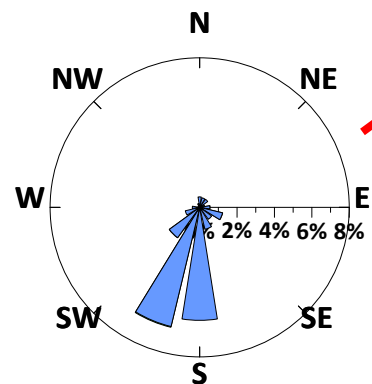
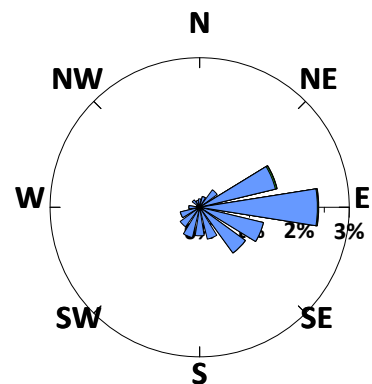
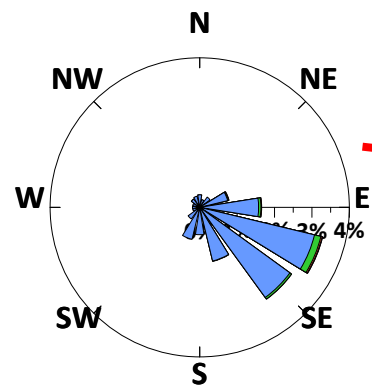
# Non-Methane Hydrocarbons (ppm, 1 hr)







**Methane (1 hr):  
All Measurements**



**Methane (1 hr):  
Background Removed**

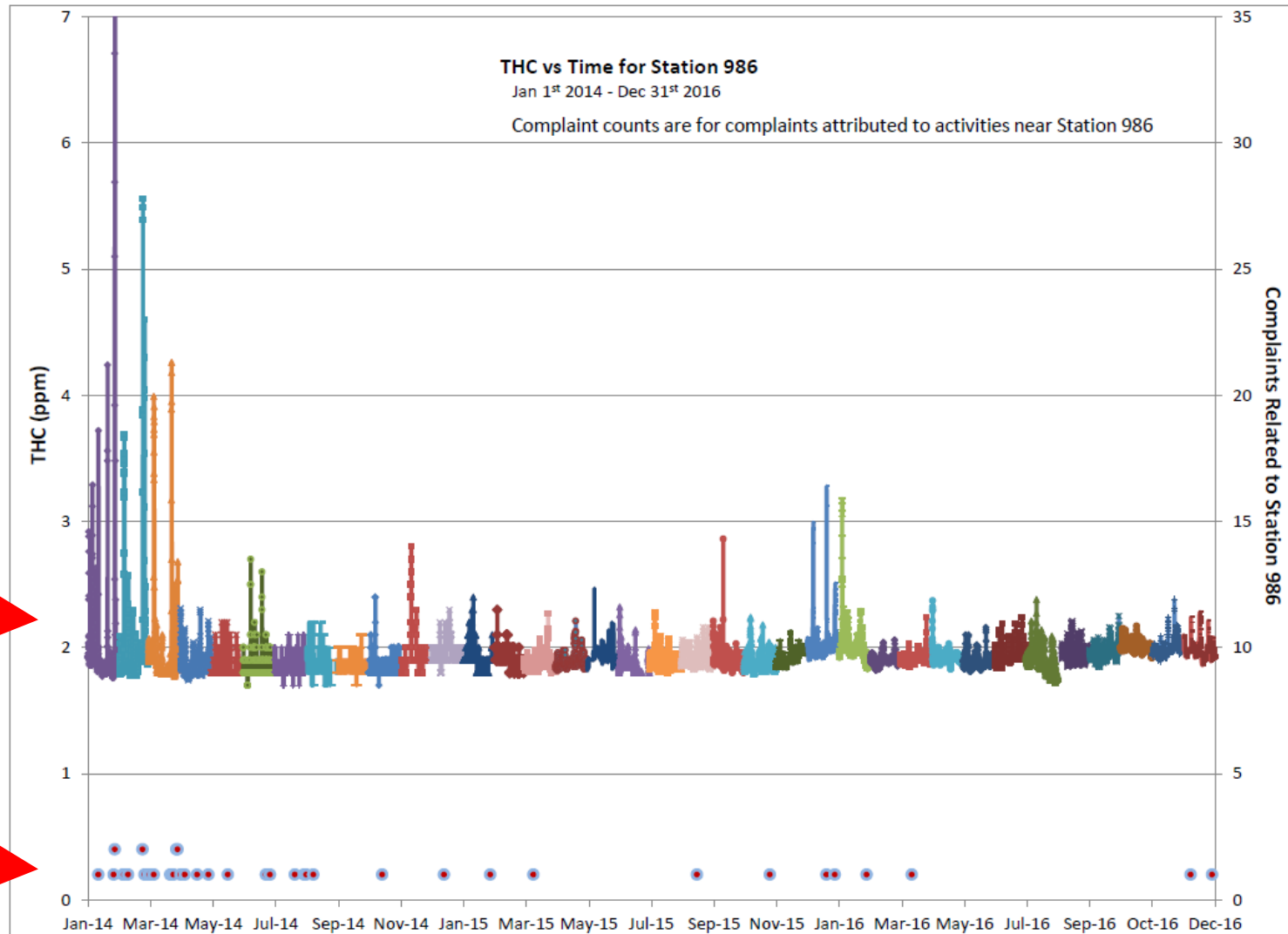
# Canister Trigger Events

	986	842	Reno
2010	7	NA	NA
2011	32	NA	NA
2012	55	NA	NA
2013	12	11	NA
2014	1	10	NA
2015	9	0	5
2016	9	0	3

# Station 986: Complaints & Total Hydrocarbons

Concentration

Complaints

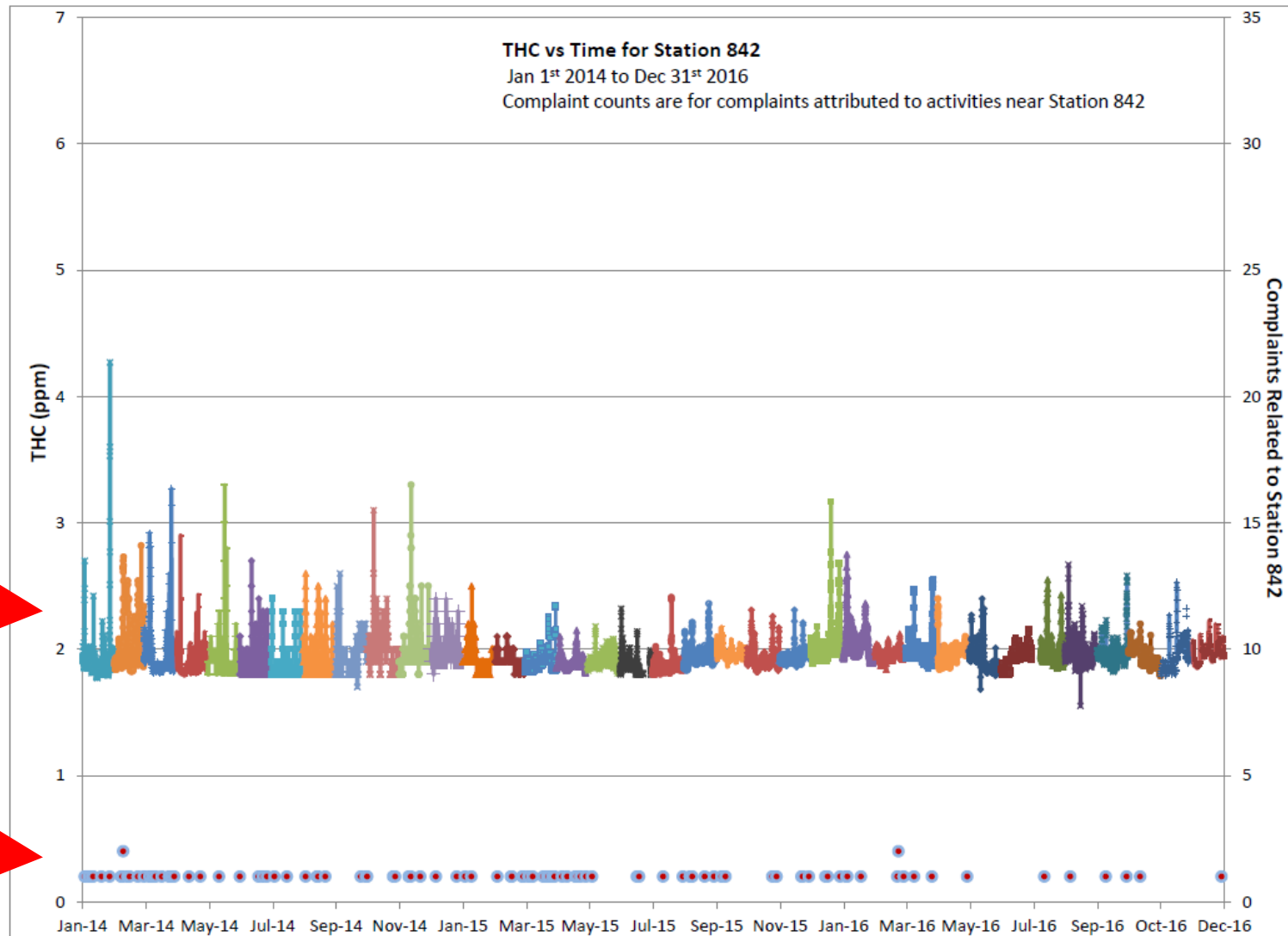


# Station 842:

## Complaints & Total Hydrocarbons

Concentration

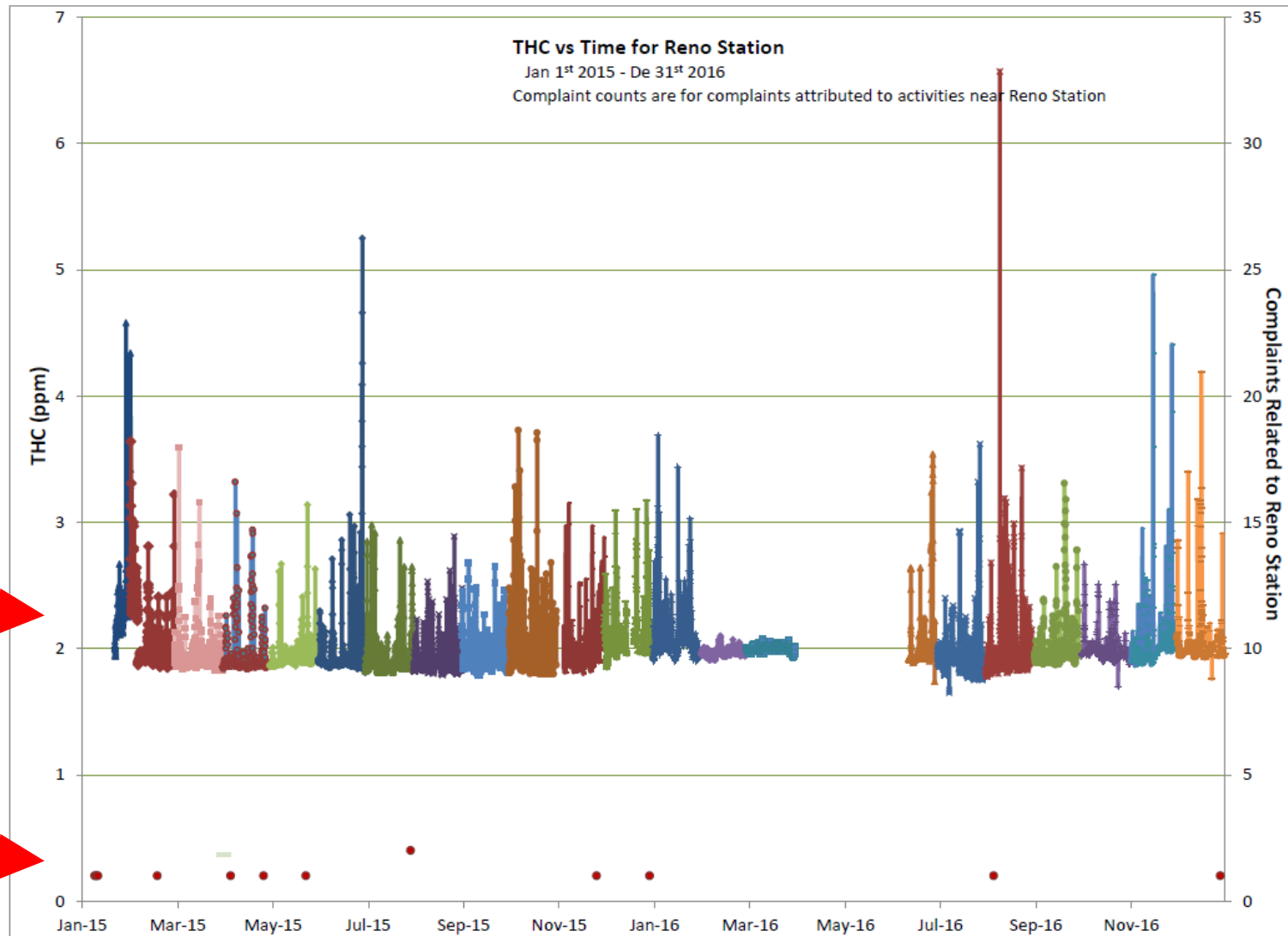
Complaints



# Reno Station: Complaints & Total Hydrocarbons

Concentration

Complaints



# Key Messages

- The frequency of elevated hydrocarbon events has come down over time
- The frequency of triggered canister events has come down over time
- The number of complaints received by government agencies has come down over time
- The process improvements and mitigation measures implemented by local industry have resulted in improvements in air quality
- Ongoing monitoring and assessment is required
- Further analysis of canister data is required

# Looking Forward

- 2014-15 Annual Report
- Network Expansion
  - Shell Peace River Complex
  - Continuous Monitoring Network
  - Passive Monitoring Network
- Improved access to data and information
  - Website (coming soon)
    - <https://www.prampairshed.ca/>
    - Near real-time data
      - Current: <http://maxxam.siteonlinelive.com/>
    - Mapping and chart functions
    - Technical reports
  - Alberta Environment and Parks “AirDATA”
    - <http://airdata.alberta.ca/>
- Continuous improvement
- Adaptive management



# Thank You

## Questions?



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