

Mobile Monitoring in El Segundo: Hyperion Treatment Facility

08/04/2021

Overview

Mobile measurements using Optical Remote Sensing Mobile Laboratory

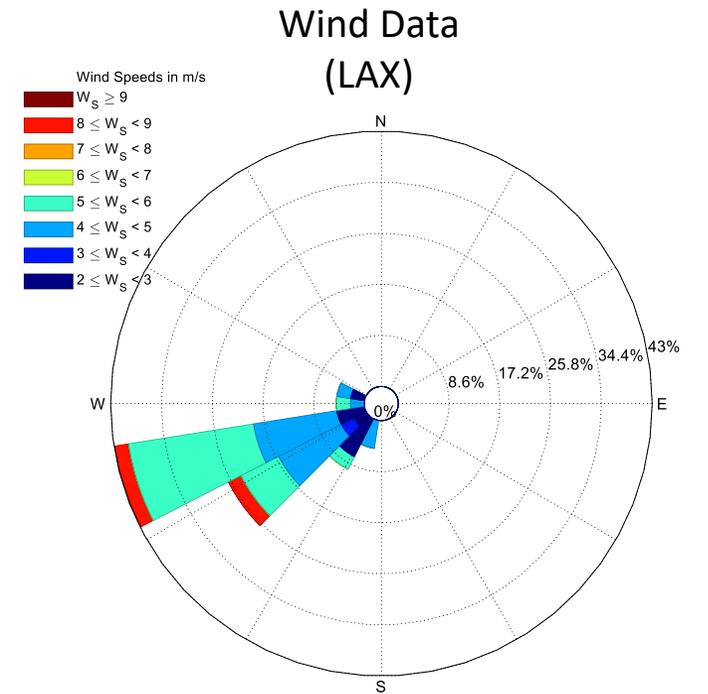
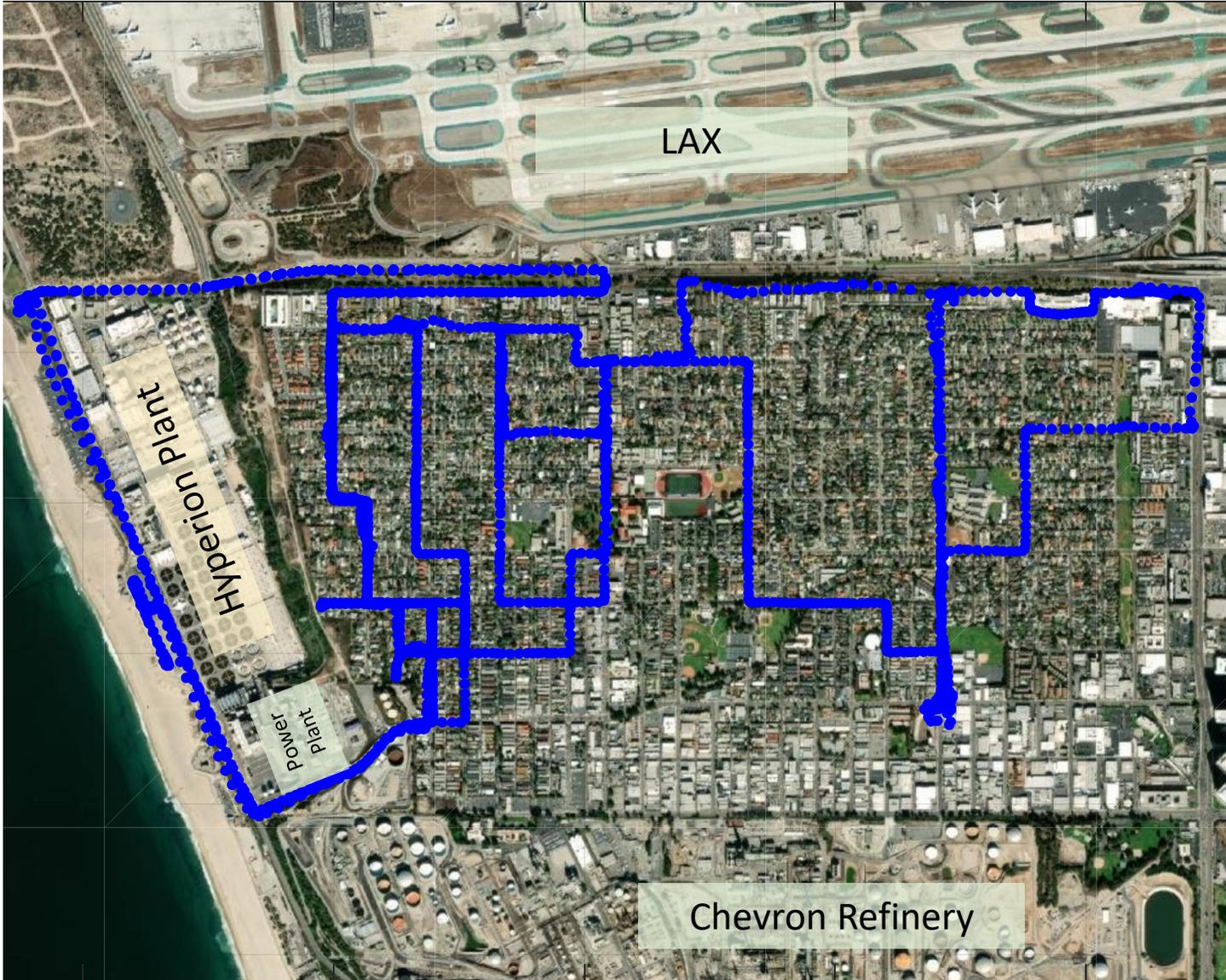
Measure instantaneous ($> 10s$) concentrations in real-time

- Gaseous Air Toxics
 - Benzene, toluene, ethylbenzene, xylenes
- Other Pollutants
 - Methane, total VOC's
 - SO₂ (post deployment re-analysis is possible)



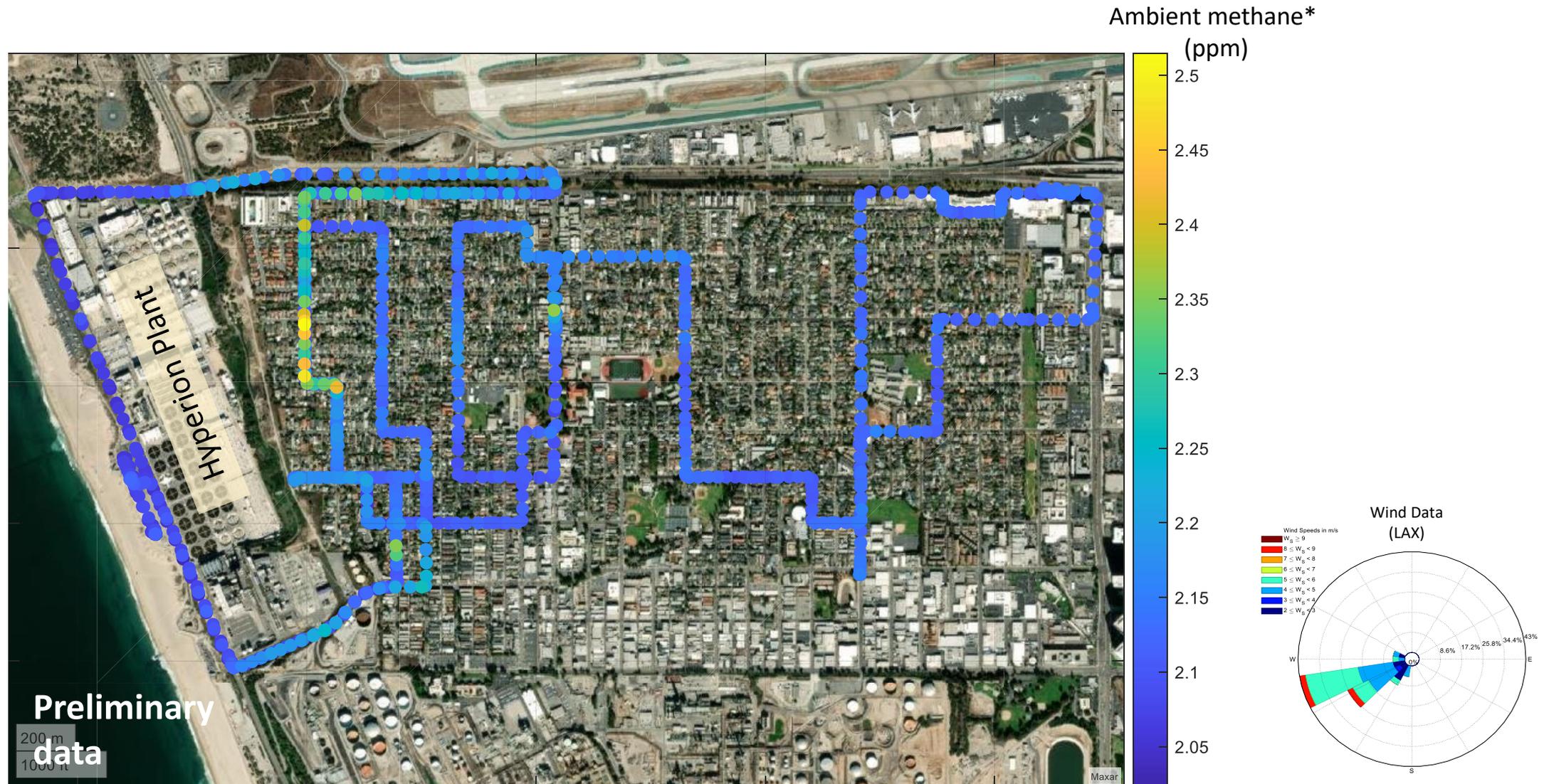
Measurements Route

Aug 4th 2021 6:30 am – 10:00 am



Methane

Methane mobile map for a selected transect 08/04/2021 07:48 – 09:55 am



*Note: methane background of 2.1 ppm is assumed

Instantaneous measurements between
07:50 – 07:52 am

Benzene=12.7

Toluene = 39.8

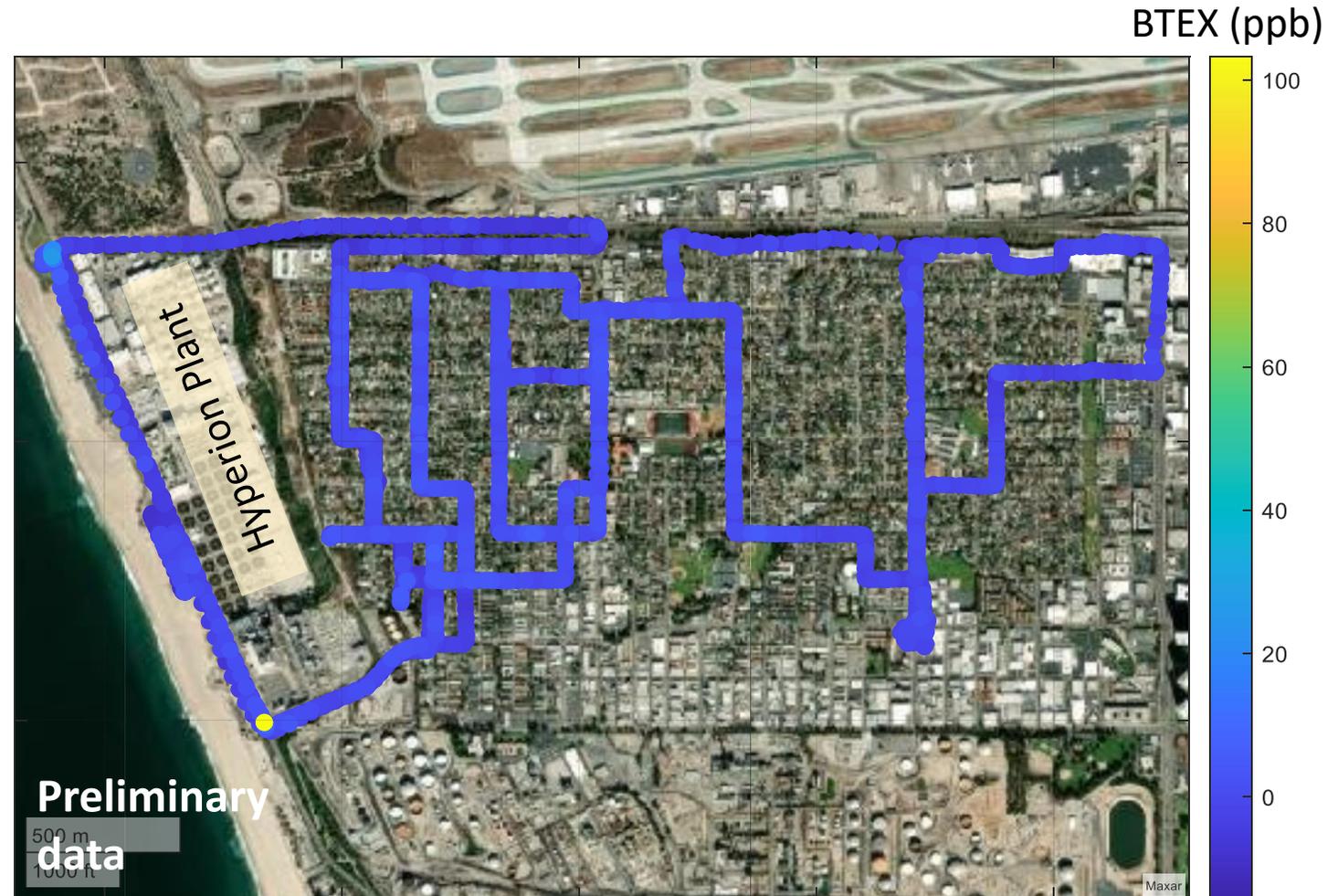
Ethylbenzene=20.0

Xylenes (m/p)=38.4/7.7

This short-term enhancement was not sustained (potentially a transient source, i.e. a passing vehicle), repeated measurements at this location did not show elevated levels.

**No other elevated BTEX
observed in the community**

BTEX



Summary

- Mobile ORS measurements for gaseous air toxins and other pollutants were conducted on 8/04/21 between 6:30 and 10 am
- Slightly elevated levels of methane compared to other areas surveyed were observed near the facility but were within typical ambient methane levels measured in urban areas
- No sustained elevated levels of air toxics, BTEX, were detected in the community
- A brief BTEX plume (with max benzene of ~13ppb, instantaneous measurement) was detected between 7:50 and 7:52 am near intersection of W Grand Ave and Isla Del Mar (between Statesboro Power Plant and Chevron refinery), as it was no longer present during a repeated measurement at this location.