

**Megacities Carbon Project Team Meeting**  
**19 & 20 May 2022**  
**The Think Tank @ Keck Institute for Space Studies (KISS),**  
**California Institute of Technology, Pasadena CA 91125**  
**Virtual Connection via Zoom**  
**(all times PDT)**

**19 May**

9:00 Introduction – Meeting objectives (James Whetstone)

**Review of Megacities Carbon Project progress, measurements**

9:05 Overview of work in LA region – Chip Miller, JPL

9:25 Overview of SIO work (SIO) – new Calibration, CO time series

9:35 BEACON-LA, Rn Measurements – Will Berelson, USC

9:45 Landfills, CO<sub>2</sub> Plumes – Dan Cusworth, Carbon Mapper, UofA

9:55 **Break**

10:15 Hestia-LA Updates – Kevin Gurney, NAU

10:25 LA Mobile Campaigns, UCR Tower – Francesca Hopkins, UCR

10:35 CLARS Long-term Imagery of LA GHGs – Stan Sander, JPL

10:45 OCO-3 LA Area Maps – M Kiel/R Nelson, JPL

10:55 LA Inversions & Biosphere Model – Vineet Yadav, JPL

11:05 **Break**

**Other testbed measurements/methods of interest**

11:20 Overview of relevant other testbed activities – Anna Karion, NIST

11:30 Satellite observations – Eric Kort/ Genny Plant, UMich

11:40 Aircraft analyses – Israel Lopez-Coto, NIST

11:50 SIF and NIST FOREST – David Allen / Julia Marrs, NIST

**12:00            Lunch**

**Other testbed measurements/methods of interest (continued)**

13:30            Dual Comb Spectroscopy in the field – Kevin Cossel, NIST

13:40            GHG DIAL – David Plusquellic, NIST

13:50            Discussion #1A (plenary)

- Science questions addressed
- Outstanding science questions to be accomplished

**15:00            Break**

15:15            Discussion #1B (small groups)

16:45            Day 1 Summary

17:00            Adjourn

Team Dinner (Location TBD)

**Friday 20 May**

8:30            Overview of SUNVEx 2021 (Carsten Warneke, NOAA CSL)

8:40            SUNVEx Field Observation Analyses (Carsten Warneke, NOAA CSL)

9:00            SUNVEx Model Analyses (Brian McDonald, NOAA CSL)

9:20            SUNVEx <sup>14</sup>CO<sub>2</sub> and comparisons to 2014-16 (John Miller, NOAA GML)

9:30            RECAP-CA aircraft flights (Ben Schulze, Caltech)

9:40            SUNVEx/RECAP-CA Discussion

- Integration of SunVEX and LA Network data
- Future papers and required analyses, esp with an eye towards AEROMMA/STAQS

**10:10            Break**

10:30            AEROMMA overview and objectives (Carsten Warneke, NOAA/CSL)

10:45            STAQS overview and objectives (Barry Lefer, NASA)

11:00            DISCUSSION #2

- How LA Network supports/complements each
- Lessons learned from SunVEX
- 2022 needs for AEROMMA/STAQS prep
- Potential measurement/methods in support of AEROMMA –

**12:00            Lunch**

13:00            DISCUSSION #3

Potential opportunities/challenges, e.g.,

- Bio components
- AQ/GHGs
- Meteorological model

Path Forward

- Publication Plans (author, title, result, requirements, target dates)
- Long-term goals for the LA Megacities project

14:45            Summary and plans for next meeting (15 minutes)

15:00            Adjourn