

## ICOS workshop on strategies to monitor greenhouse gases in urban environments

Helsinki / Hyytiälä, Finland

1 – 4 July 2019

### Draft programme

Date		Activities
July 1	Monday morning	Possible field trip: Tour to Helsinki Eddy Covariance sites “Kumpula” and “Torni” (for people that arrive the day before)
	Monday midday	12:30 – 16:00 Transfer from Helsinki to Hyytiälä by bus. Bus stops at Helsinki-Vantaa airport (leaving from there at 13:00).
	Monday afternoon	
	Monday evening	16:30 – 17:15 Dinner <b>(1) 17:30 – 19:00 (1.5 h) <u>Welcome</u></b> (logistics, need, scope and goals).
July 2	Tuesday morning	<b>(2) 8:30 – 12:00 (3.5 h)</b> Fundamental challenges and opportunities to measure GHGs in cities - from <u>space, in atmosphere and in ecosystems</u> (invited presentations, conceptual and case studies).
	Tuesday midday	12:00 – 12:45 Lunch
	Tuesday afternoon	<b>(3) 14:00 – 16:30 (2.5 h)</b> Lessons learned from <u>existing urban GHG networks</u> and efforts (invited presentations, logistical challenges). Link to WMO GURME, IAUC Urban Flux Network etc.
	Tuesday evening	16:30 – 17:15 Dinner <b>(4) 17:30 – 19:00 (1.5 h)</b> Defining goals for long-term urban GHG observations (group discussion).
July 3	Wednesday morning	<b>(5) 8:30 – 12:00 (3.5 h)</b> Defining <u>strategies for urban GHG observations</u> (break out in small groups from 8:30 – 10:00, separate for atmosphere, ecosystem, isotopes). Questions: site layouts? network layouts? standardisation? meta-data? remote sensing? models? Presentation and discussion of break out groups – <u>shaping coherent strategies</u> . Incorporating into paper.
	Wednesday midday	12:00 – 12:45 Lunch, 12:45 – 13:00 Photo session
	Wednesday afternoon	<b>(6) 14:00 – 16:30 (2.5 h)</b> Integration into an overall urban <u>ICOS strategy</u> , work on paper.
	Wednesday evening	16:30 – 17:15 Dinner <b>(7) 17:30 – 19:00 (1.5 h)</b> Integration – Logistical details – Proposed data requirements, flow, certification processes, national networks?
July 4	Thursday morning	<b>(8) 8:30 – 12:00 (3.5 h)</b> <u>Closing discussions</u> – next steps, work on paper.
	Thursday midday	11:00 – Transfer to Helsinki by bus, food on the way back – 15:30 arrival at Helsinki-Vantaa airport.
	Thursday late afternoon	Possible field trip: Tour to Helsinki Eddy Covariance sites “Kumpula” and “Torni” (for people that leave late afternoon or next day)