

## Proposal: mobile BC campaign in Cali



**Objective:** Compare personal BC exposure in Cali and Stockholm during different modes of mobility

*Merritt et al., 2019, Science of the Total Environment , 674, 279-287*

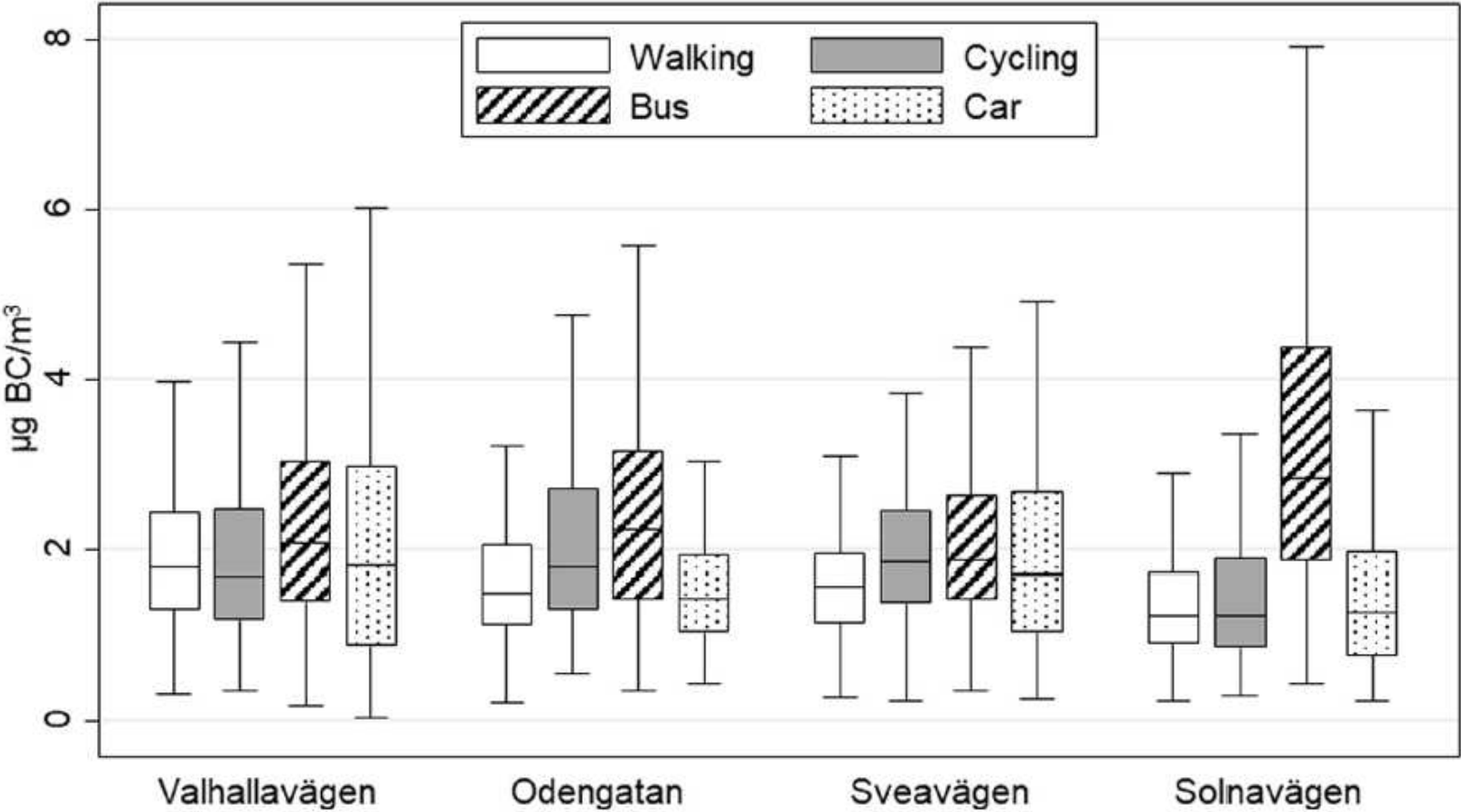


- Personal exposure using portable aethalometer (MicroAeth Model AE51):
  - walking
  - cycling
  - car travel
  - bus travelalong the same road (approximately 2 km long)
  
- Use of simultaneous data from existing monitoring network:
  - one urban background station (BC, PM2.5, NOx, ....)
  - one street canyon station (BC, PM2.5, NOx, ....)
  - meteorological data

# Results Stockholm (>4000 individual passages)



A.-S. Merritt et al. / Science of the Total Environment 674 (2019) 279–287



## Mobile campaign in Cali (proposal)

---



- Minor Field Study (funded by Sida, Sweden)
- Undergraduate thesis work for Anton Dahlberg, Stockholm University (supervised by Christer Johansson)
- Planned for March – May 2020
- Using mini-aethalometer from Stockholm
- Data from nearby DAGMA stations

The campaign will require support to Anton:

- Design where and when to monitor
- Permits to measure inside buses
- Possibility to measure inside car
- Practical guidance, safety, ....