MIR Site Report: Wollongong, NSW

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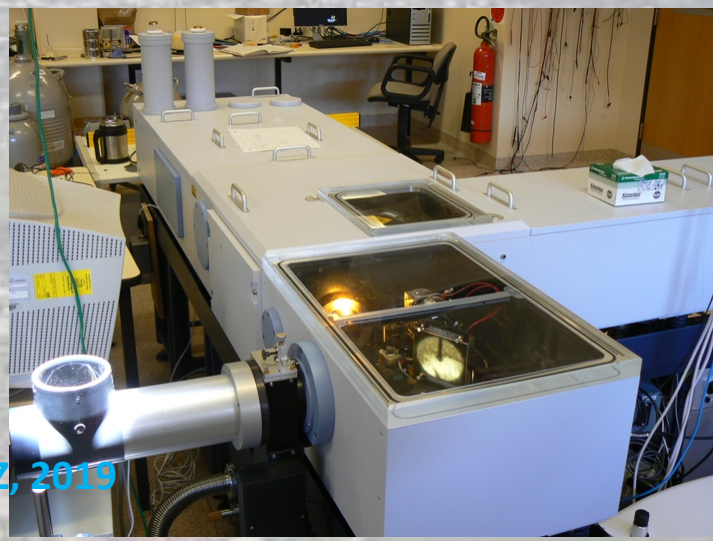

NDACC TCCON Meeting, Wanaka NZ, 2019

Site Report: Wollongong, NSW

- Administrative matters
  - The MIR programme is funded through Australian Federal grant till end of 2020
  - NJ is funded at 50%.
- The CAMS rapid delivery of O3/CO underway and has helped streamline some of the processing (this is ongoing with other improvements needed).
- Archiving: updated HDF O_3, CO, added HNO_3, HF (to Dec 2018). Focus now on rest of NDACC molecules to archive HDF files up to end of 2018.
- Testing sfit4_0.9.7.3 seems to be working ok. Molecules so far archived with sfit4_0.9.4.4
- Instrument performing well, no current significant issues. Failure of instrument pc over summer.
- Data: 12 months May 2018-May 2019, 194 measurement days (not counting TCCON only days).
- New building with roof top platform for our future atmospheric measurements under construction; move in early next year. Current instrument may move to new location or new HR125

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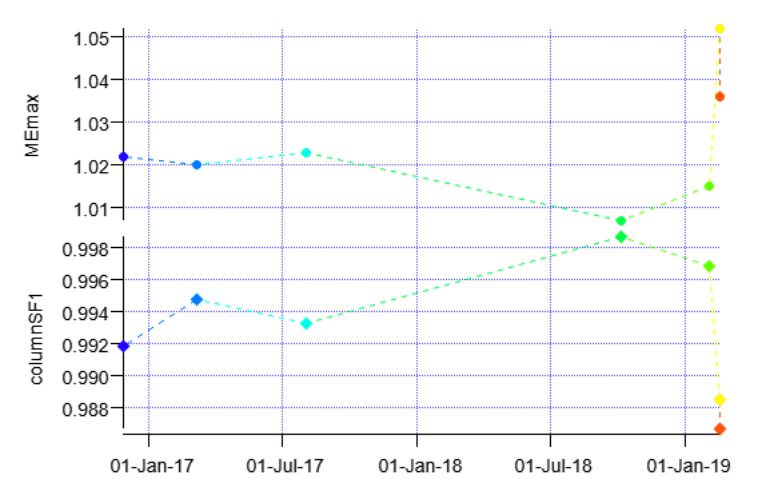
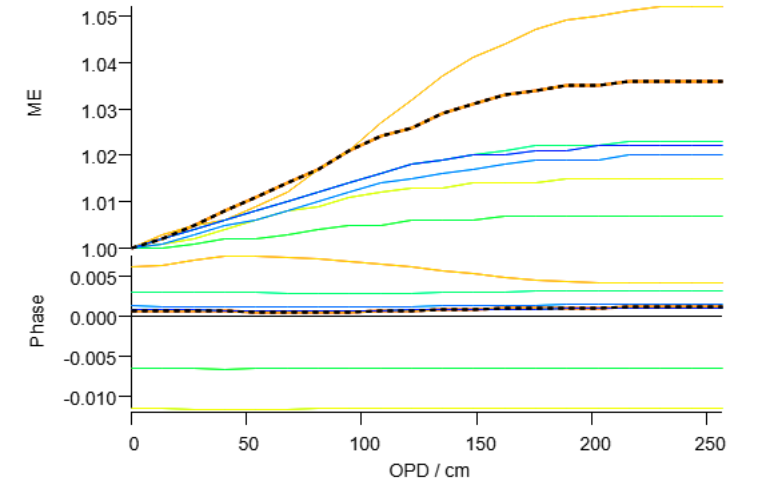
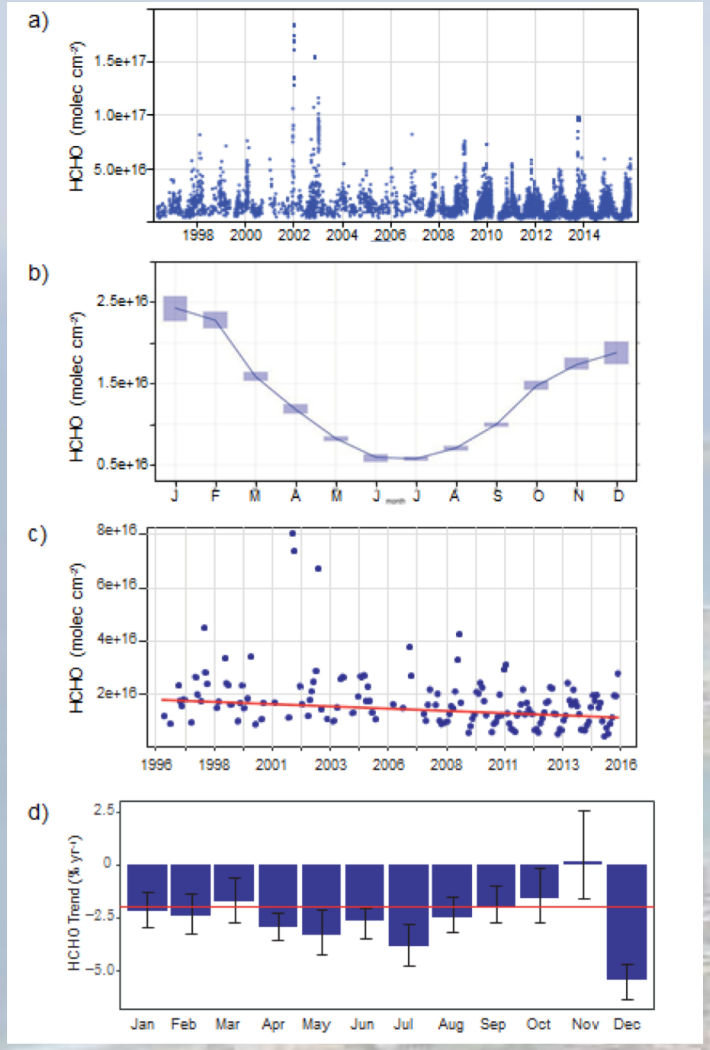
Wollongong ILS –HBr cell



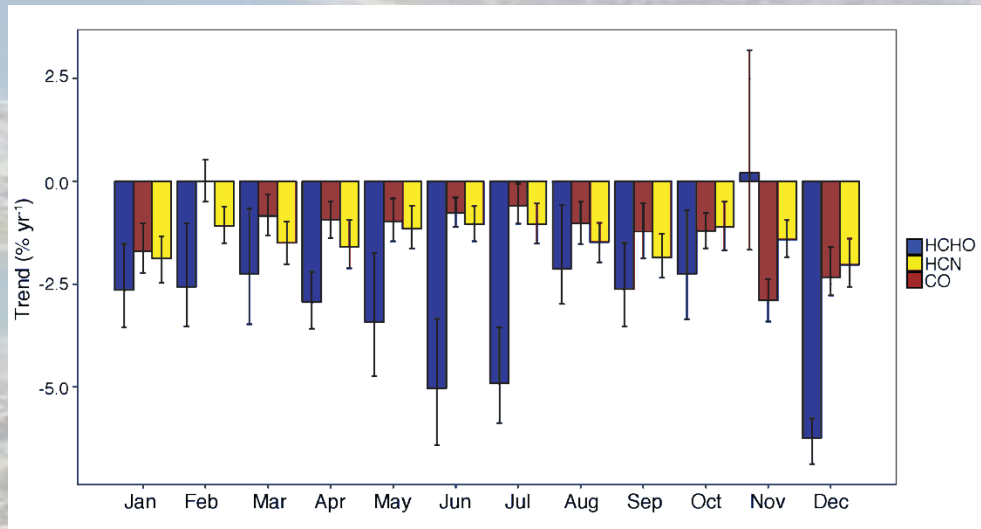


Site Report: Wollongong

HCHO study, Fisher et al in prep 2019.



- Downward trend of -1.9 [-2.2,-1.7]% yr^{-1}
- Not seen in OMI HCHO data implying a local phenomenon.
- Tested several ideas including biogenic, anthropogenic and biomass burning emissions



HNO3 retrievals with channelling present