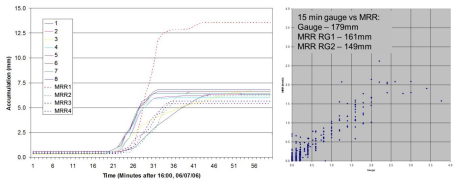
A micro rain radar mid-latitude precipitation GV dataset

Chris Kidd, Edward Graham, Tim Smyth

University of Maryland, University of the Highland and Islands, Plymouth Marine Laboratory

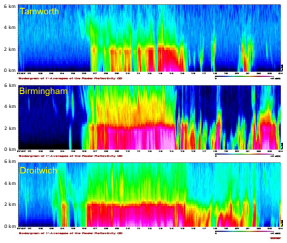
Birmingham facility (2005) Inter-calibration/validation phase

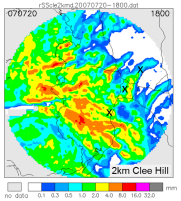
- 4 micro rain radars – vertical Doppler, 24.1 GHz
- 8 calibration gauges (2 per radar)
- 16 outer gauges
- zeus lightning network
- rain sampler (0.2 mm/tip – DOC & isotopic analysis)



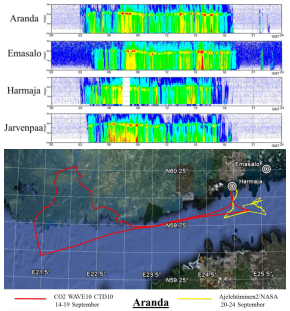
Birmingham Urban Precipitation Study (2006-2009)

Droitwich MRR





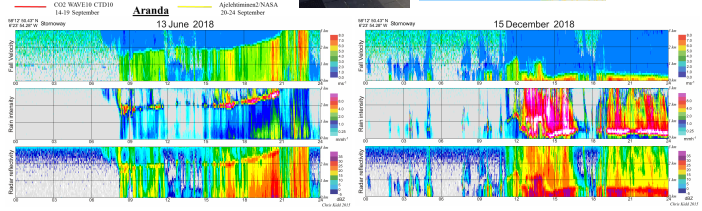
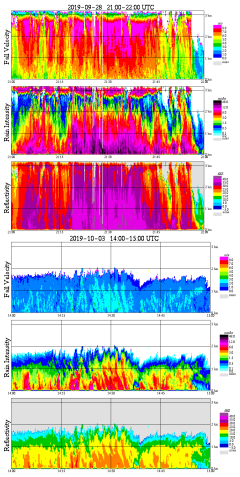
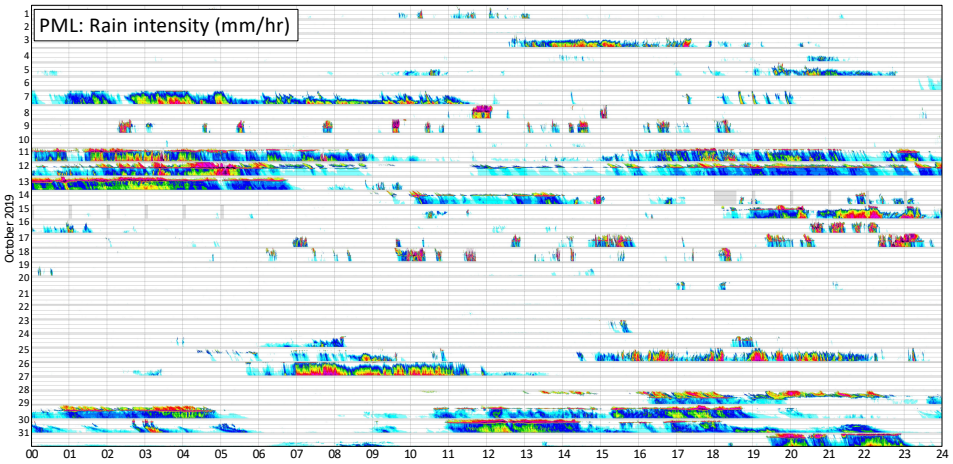
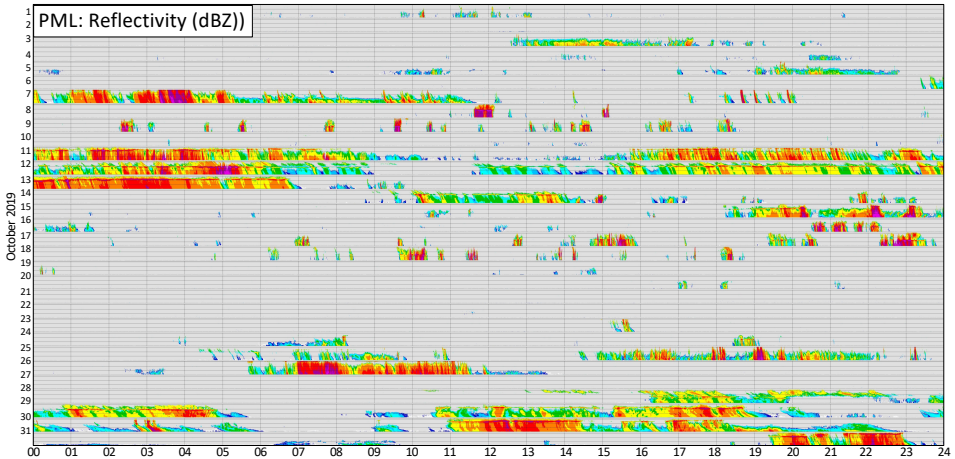
GPM Ground Validation (2010->)



Mid-latitude coastal/ocean regimes

Lews Castle Stornoway

MRR-Pro Plymouth (UK)



Plymouth (UK) (MRR-Pro)