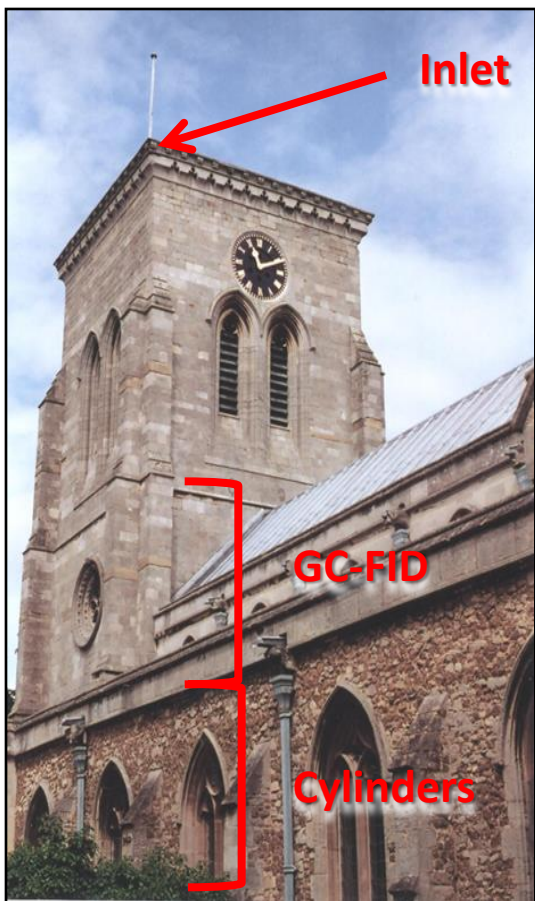


Verification of the UK Methane Emissions Inventory

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The project involves installing 4 Ellutia GC machines in the East Anglia region to measure atmospheric methane concentrations. We install the machines in church towers to minimise strong local fluxes being recorded and to ensure more regional concentrations of methane are measured.

The figures show an overview of a typical set up (left) and a more detail equipment set up (below) in Haddenham church. The collected data are then combined with output from the Met Office's dispersion computer model: NAME. The InTEM inversion technique is then used to create alternative emissions fields of methane which are then compared with the current inventory.

The figure below shows a year long time series of methane values recorded at Haddenham. Initial analysis associates the elevated concentrations to be from nearby landfills. We thank Haddenham PCC for permission to use Holy Trinity church.

