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#### Supplement of

# Characterisation and source identification of biofluorescent aerosol emissions over winter and summer periods in the United Kingdom

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## 1 Chilbolton Temperature boxplot

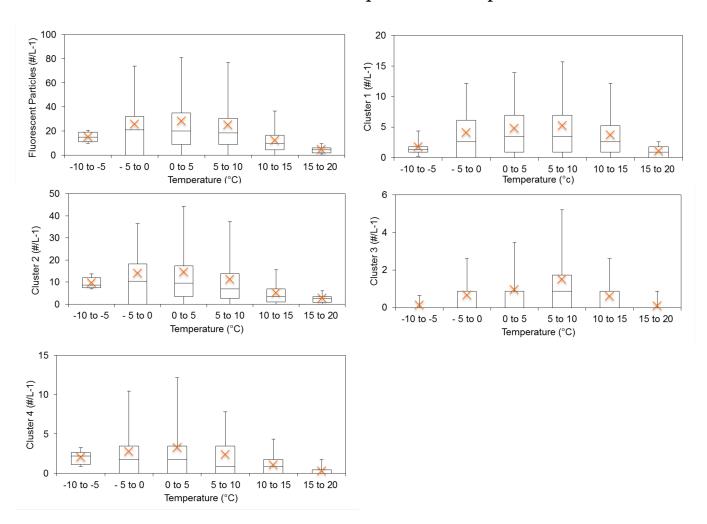


Figure S1: Chilbolton temperature plots in relation to total fluorescent particles and clusters.

## 2 Chilbolton Relative Humidity boxplot

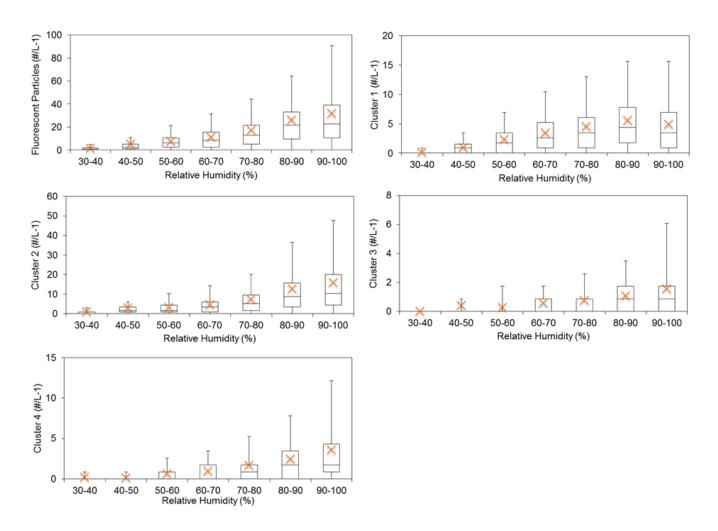


Figure S2: Chilbolton relative humidity plots in relation to total fluorescent particles and clusters.

## 3 Weybourne Temperature boxplot

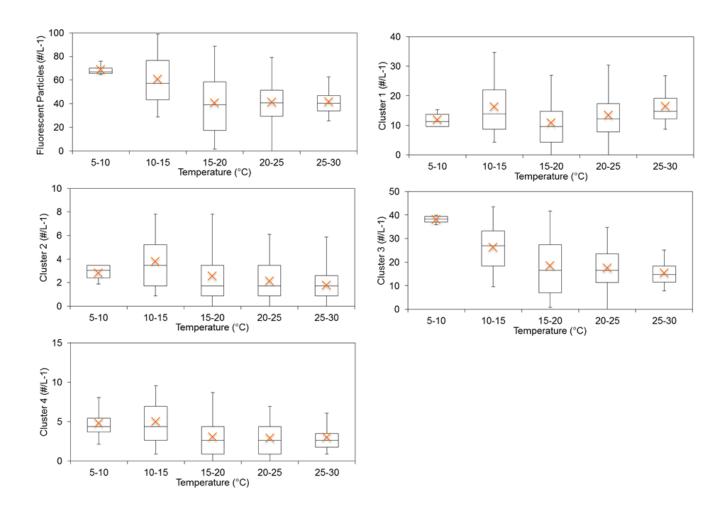


Figure S3: Weybourne temperature plots in relation to total fluorescent particles and clusters.

## 4 Weybourne Relative Humidity boxplot

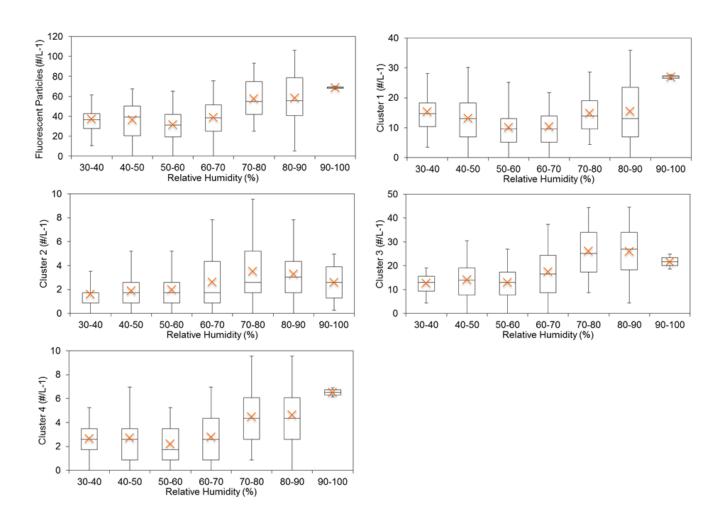


Figure S4: Weybourne relative humidity plots in relation to total fluorescent particles and clusters.

## 5 Davidstow Temperature boxplot

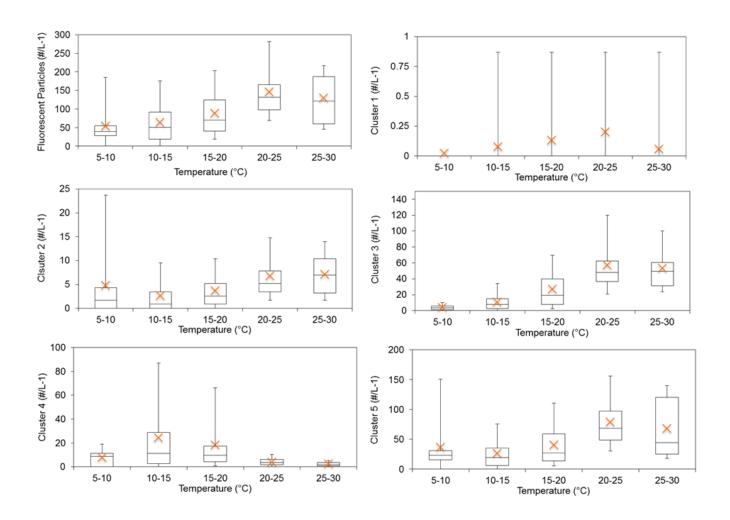


Figure S5: Davidstow temperature plots in relation to total fluorescent particles and clusters.

#### 6 Davidstow Relative Humidity boxplot

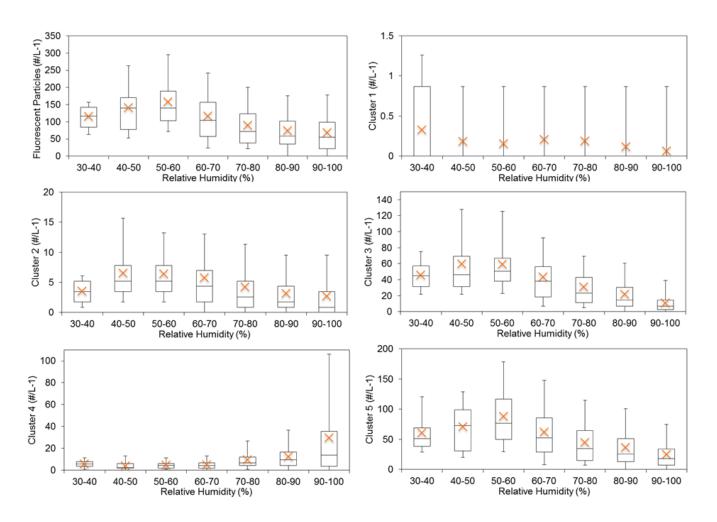


Figure S6: Davidstow relative humidity plots in relation to total fluorescent particles and clusters.

# 7 Capel Dewi Temperature boxplot

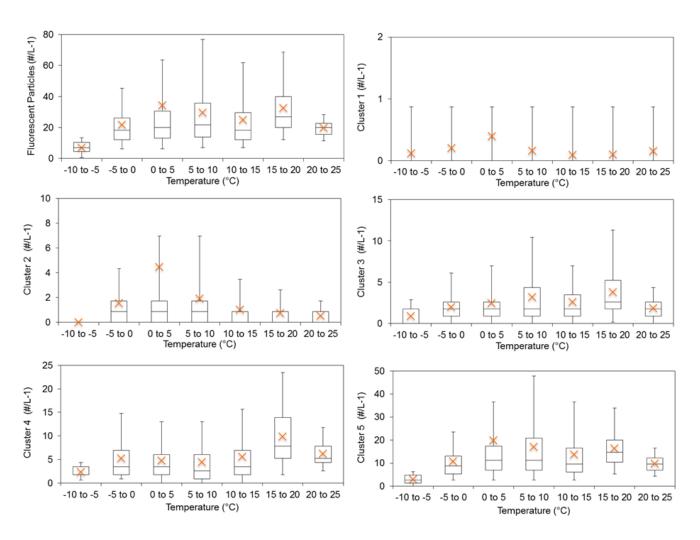


Figure S7: Capel Dewi temperature plots in relation to total fluorescent particles and clusters.

#### 8 Capel Dewi Relative Humidity boxplot

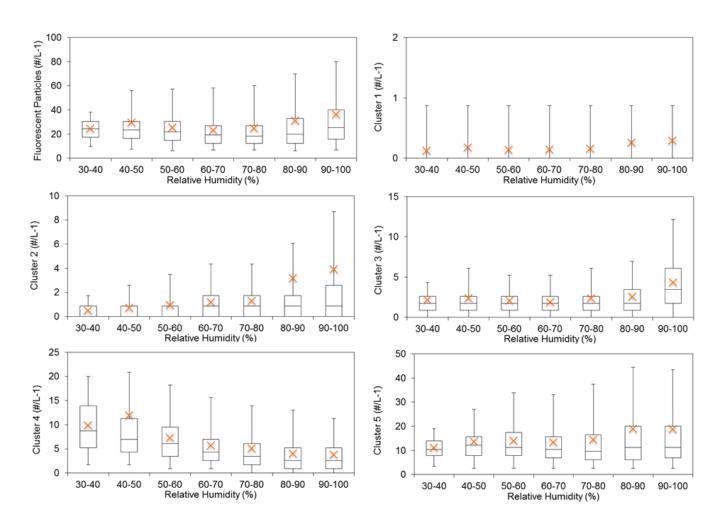


Figure S8: Capel Dewi relative humidity plots in relation to total fluorescent particles and clusters.

# 9 Openair - Chilbolton

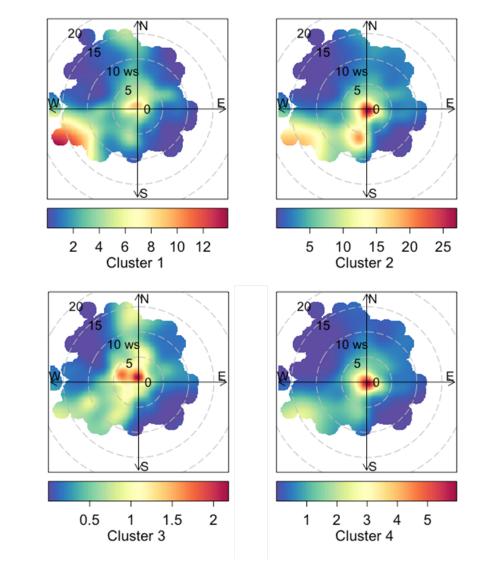


Figure S9: Chilbolton Openair PolarPlots.

# 10 Openair - Weybourne

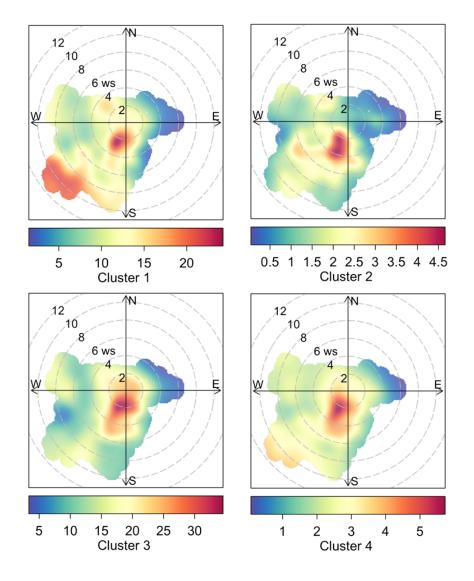


Figure S10: Weybourne Openair PolarPlots.

# 11 Openair - Davidstow

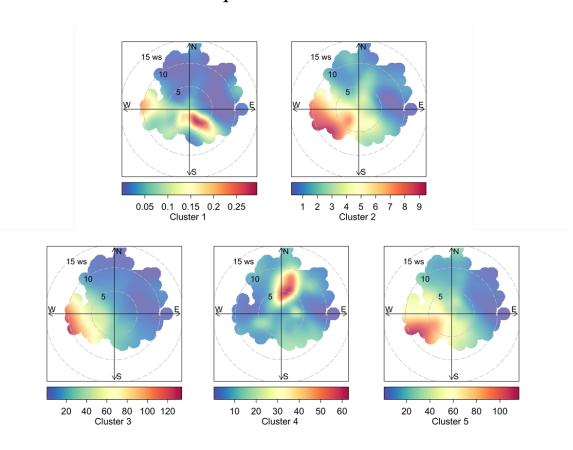


Figure S11: Davidstow Openair PolarPlots.

## 12 Openair - Capel Dewi

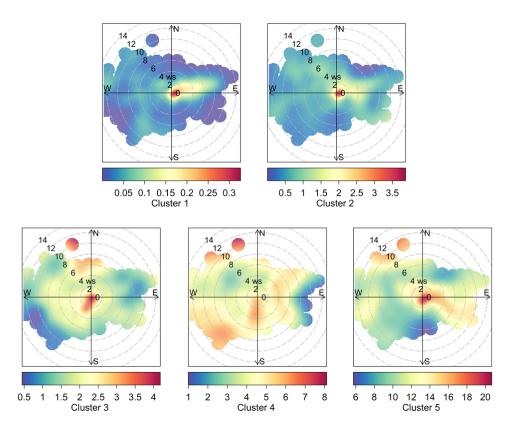


Figure S12: Capel Dewi Openair PolarPlots.

#### $13 ext{ FT} + 3SD/9SD - Chilbolton$

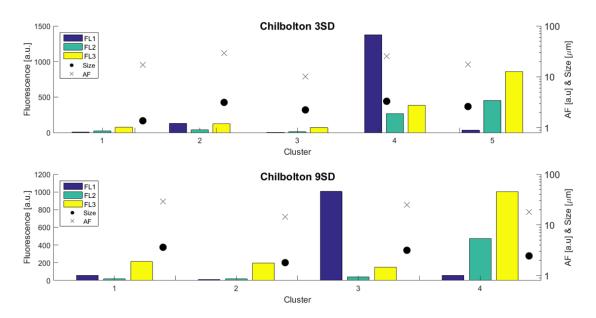


Figure S13: Chilbolton 3SD and 9SD cluster solutions.

## $14 ext{ FT} + 3SD/9SD - Weybourne$

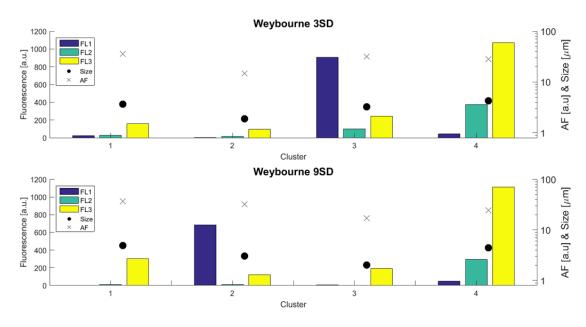


Figure S14: Weybourne 3SD and 9SD cluster solutions.

#### $15 ext{ FT} + 3SD/9SD - Davidstow$

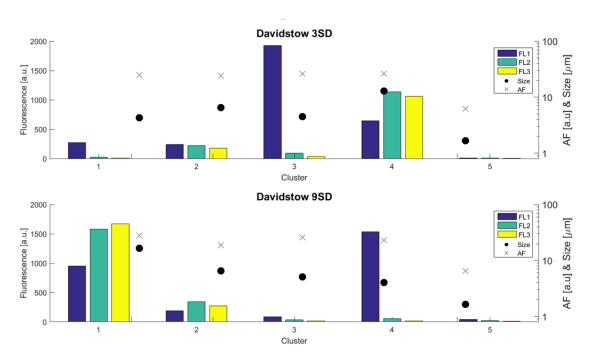


Figure S15: Davidstow 3SD and 9SD cluster solutions.

### 16 FT + 3SD/9SD - Capel Dewi

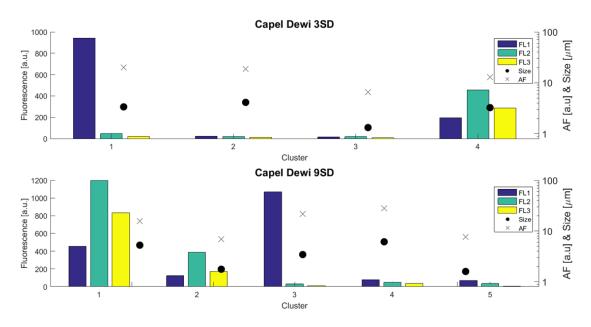


Figure S16: Capel Dewi 3SD and 9SD cluster solutions.