Critical factors for pollen;

1) Duration of release (interval ~10am - ~4pm)
2) Intensity of release (time series of intensity)
3) Viability interval (minima and maxima optimals)
4) Quantitative release functions
   a) Solar forcing
      -radiative flux (photosynthetic and bulk)
      -temperature (optimal range)
      -humidity (Rh, absolute; optimal range)
   b) Dynamic forcing
      -plant surface wetness, release threshold
      -wind speed at canopy (release height)
      -wind speed at ground (re-entrainment height)
      -turbulence in surface layer (threshold u^*)
5) Transport time, distance, direction
   a) Time length of viability (variation with time of day)
      -determines length of time for dispersive processes
      -must maintain viability to deposition
   b) Vertical dispersion
      -atmospheric stability
      -boundary layer eddy processes
      -gravitational/settling velocity
      -synoptic fronts
   c) Horizontal dispersion
      -topographic forcing/channelling
      -local diurnal circulations
      -synoptic impingement
      -boundary layer eddy processes
6) Surface collection (viable)
   a) surface inhomogeneity
   b) surface roughness elements
   c) presence of surface moisture
   d) impaction/collection efficiency at velocity