Oman is one of the most water-stressed countries in the world and is highly dependent on ground-based ionisation has a history of investigation, including field experiments into the electrification of clouds via the releases of ions into the sub-cloud air using a high-voltage power supply that generates corona discharges from an extensive array of small diameter metal wires supported on a frame connected to a large network of thin wires exposed to local winds and updrafts. In particular, this methodology follows previously employed previously, using dynamically driven downwind model to estimate how much of an increase (or decrease) in the values generated by a model for the rainfall recorded by gauges in the upwind part of the 30km corridors for the target and control areas. The second modelling stage involves fitting a model to the rainfall data in the downwind (i.e. target and control) area using a range of meteorological and topographic covariates, plus random spatial and temporal difference between observed rainfall and the estimated natural rainfall. The statistical model adopted for this purpose is itself rather complex, being a mixture of fixed effects, random effects, and a random effect block bootstrap for clustered data. 2. Atlant systems with operating schedules that ensure adequate separation between target and control areas with a rainfall gauge classified as being a target (exposed) gauge or a control (unexposed) gauge on the basis of its distance from the Atlant sites and its relative orientation to the prevailing steering wind direction vectors at these sites. Seeding with charged droplets. Part I: Theory and numerical simulations. 3. Beare, R. and D. Carslaw. 2011: The effect of cloud electrification on the precipitation process. 4. Pinsky, M. A., M. Khain, and D. A. Atlas. 2004: Rain enhancement and fog elimination by seeding with charged droplets. Part I: Theory and numerical simulations. 5. Carslaw, R., M. Khain, and Y. Baran. 2007: The effect of cloud electrification on the precipitation process. 6. Khain, M. A., M. Khain, and Y. Baran. 2007: The effect of cloud electrification on the precipitation process. 7. Pinsky, M. A., M. Khain, and Y. Baran. 2007: The effect of cloud electrification on the precipitation process. 8. Pinsky, M. A., M. Khain, and Y. Baran. 2007: The effect of cloud electrification on the precipitation process.