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# Radar Entomology

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**radar studies of the vertical distribution of insects ...** - chapman et al., 2003), there were virtually no radar observations made from an entomological perspective in the uk, or indeed in europe in general, because the british radar entomology groups had very largely worked outside europe (schaefer, 1976; reynolds & riley, 1997). some radar observations of insect-like targets had been made by radar **radar studies of the vertical distribution of insects ...** - 1997, 2001) radar studies. one frequently observed distribution occurs when the vertical profile of insect aerial density becomes highly stratified, with insects accumulating in well-defined ... **quantitative ecology airborne radar observations of the ...** - son 1997), and thus, the entomology community has embraced the use of weather radar to study insect flight behavior, following the pioneering work of schaefer (1976) in africa. a new generation of "entomological" radars resulted, designed specifically to study airborne insect sets. radars usually operate in **characterizing animal anatomy and internal composition for ...** - original research characterizing animal anatomy and internal composition for electromagnetic modelling in radar entomology djordje mirkovic<sup>1</sup>, phillip m. stepanian<sup>2,3</sup>, charlotte e. wainwright<sup>2,3</sup>, don r. reynolds<sup>2,4</sup> & myles h. m. menz<sup>5,6</sup> <sup>1</sup>cooperative institute for mesoscale meteorological studies, university of oklahoma, norman oklahoma, 73072, usa <sup>2</sup>computational and analytical sciences ... **super resolution laser radar with blinking atmospheric ...** - in entomology, the acquisition of the detailed modulation power spectrum from light scattered from insects has been demonstrated for species and gender recognition in laboratory settings [11,12]. corresponding modulation spectra can be retrieved remotely by a cw laser radar system, as demonstrated in fig. 2, or by dark-field methods, **long range seasonal migration in insects: mechanisms ...** - radar entomology much has been revealed about high-altitude night-time insect migrations. over the last decade, there have been significant advances in insect migration research, which we review here. in particular, we highlight: (1) notable improvements in our understanding of lepidopteran **stored reduct microwave radar detection of stored-product ...** - stored-product microwave radar detection of stored-product insects r. w. mankin usda Dars, center for medical, agricultural, and veterinary entomology, gainesville, fl 32608 **tracking insects with harmonic radar: a case study** - tracking insects with harmonic radar: a case study abstract harmonic radar technology can be used to track the dispersal of tagged insects. the tag consists of a wire antenna attached to a schottky diode, which uses the original radar signal as an energy source, re-emitting a harmonic of the transmitted wavelength.

**fundamentals of tomography and radar** - fundamentals of tomography and radar 3 figure 1. high resolution sar image of a part of the university campus in karlsruhe (germany). the white arrow refers to a lattice in the left courtyard, which is shown in more detail in the small picture on the left bottom. the corresponding optical image is shown on the left top (after brenner and ender[4]). **verification value of insect observations made with x-band ...** - radar entomology, observing insect flight and migration. cab international, wallingford, uk.] a small-angle scan produces a complicated echo signal that contains information about the insect's path through the beam. the scan also incorporates rotating linear polarization, which provides information about target orientation and shape. **a polarimetric doppler radar time-series simulator for ...** - review a polarimetric doppler radar time-series simulator for biological applications phillip m. stepanian<sup>1,2</sup>, djordje mirkovic<sup>3</sup> & phillip b. chilson<sup>4</sup> <sup>1</sup>radar entomology unit, computational and analytical sciences department, rothamsted research, harpenden hertfordshire al5 2jq, united kingdom <sup>2</sup>corix plains institute, university of oklahoma, norman, oklahoma 73019, usa **insect ventral radar cross-section polarization dependence ...** - radar entomology has become a practical long-term monitoring technique in the last decade [1, 2, 3] after gradual development since the 1970's. radar's ability to monitor insect flight remotely is practically unique and provides valuable insights into insect behaviour, e.g. [4]. current operational systems use **observations of movement dynamics of flying insects using ...** - noteworthy previous efforts include the application of radar entomology to study the movement behaviour of insects 8-11 . these radar studies range from the monitoring of large-scale insect **the flight behavior of small insects in the atmospheric ...** - environmental entomology . geerts and miao - 2 abstract geerts and miao (2004) combine aircraft and airborne doppler radar observations to show that insects in the atmospheric convective boundary layer (cbl) are concentrated in rather well-defined plumes, that these insect plumes are generally found in thermals of rising air, and that the ...

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