

Mid Atlantic Mosquito Control Association

2013 Conference Notes

Sea Level Rise & Delaware's Coastal Mosquito Control Program - Paul Zarebicki

- a) Background
 - i) Delaware is in the top ten for population density and wetland cover
 - (1) 15% estuarine wetlands
 - (2) Typical species
 - (a) *Oc sollicitans*
 - (b) *Oc cantator*
 - (c) *Oc taeniorhynchus*
 - (d) *Ae vexans*
 - (e) *An bradleyi*
 - ii) Mosquito control since the 1950s
 - iii) IPM
 - iv) OMWM
- b) Sea level rise has been 1 foot over the past century with models showing a rise of 1-3 feet over the next century
 - i) Changing vegetation in coastal areas
 - (1) Areas converting to open water
 - (2) Upland-wetland interfaces are changing
 - (a) Dead trees
 - (b) Vegetation changes
 - (c) Agricultural fields are becoming low salt marsh
 - ii) Salinity changes are occurring
 - iii) Salt marsh mosquitoes
 - (1) Some areas are no longer producing
 - (2) New areas inland are producing giant broods