

Monitoring Bat Activity Offshore

March 1, 2016



WREN Webinar Series Goals

This webinar series supports WREN's goals to:

- Facilitate international collaboration that advances global understanding of environmental effects of offshore and land-based wind energy development.
- Create a shared global knowledge base and community of practice around research, monitoring, and management of the environmental effects of wind energy development.





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WREN Webinars Held to Date

- This is WREN's sixth webinar. Each offers perspectives from multiple nations and attracts between 60 and 80 unique call-ins from varying sectors and geographies.
- All webinars and associated presentations are archived on the WREN Hub at: <http://tethys.pnnl.gov>.
- Topics have been about research, monitoring, methodologies, and results. Future webinars will continue to facilitate partnerships and leverage existing information. Some ideas being considered:
 - Development Tools
 - Mitigation
 - Compensation
 - Environmental Uncertainty and Risk
 - Environmental Regulation
 - Environmental Practices
 - WREN Hub
 - WREN White Papers



Today's Webinar

Monitoring Bat Activity Offshore as presented by:

- Trevor Peterson, Stantec Consulting Services, Inc.
- Sander Lagerveld, The Netherlands Institute for Marine Resources and Ecosystem Studies and Maarten Platteeuw, The Netherlands Ministry of Infrastructure and Environment

The speakers will present on their methods and results surveying bat activity.





Webinar #5 Speaker Biographies

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Trevor Peterson, senior wildlife biologist, Stantec Consulting Services Inc.,

Mr. Peterson's presentation will include a high-level summary of the methods and results of a long-term regional survey of bat activity at remote islands, offshore structures, and coastal sites conducted from 2009 – 2014. Scientists used acoustic bat detectors to passively monitor bat presence during extended periods (early spring through late fall) at a variety of sites of varying degree of isolation and distance from the mainland to assess bat activity offshore. Although the research detected bats at even the most isolated sites, rates of bat activity declined significantly as site isolation increased. Species composition also differed among types of sites, and the effect of site isolation on activity levels varied among species.

Mr. Peterson will also present results of offshore monitoring in the context of results from similar monitoring efforts conducted at proposed and existing land-based wind projects.

Sander Lagerveld, IMARES, and Maarten Platteeuw, Rijkswaterstaat

Sander Lagerveld and Maarten Platteeuw will present on research in the North Sea off the western coast of The Netherlands. Inspired by occasional non-systematic observations of bats at sea during bird surveys, bird migration counts and findings of stranded individuals on oil rigs and ships, bat detectors have been placed on offshore structures (meteo masts and wind farms) on the Dutch continental shelf of the North Sea from 2012 onwards. In addition to this and because of growing concern with respect to potential hazards to bats of planned offshore windfarm developments, The Netherlands Ministries of Economic Affairs and Infrastructure and Environment have commissioned the Institute for Marine Resources and Ecosystem Studies (IMARES) to conduct research of migratory bat activity with 12 bat recorders installed at several points offshore on the Dutch continental shelf. This presentation will show the results of the earlier years and provide a brief provisional insight in some of the 2015 data. Finally, future plans will be briefly elucidated.



Thank You!

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