



**Pacific Northwest**  
NATIONAL LABORATORY

*Proudly Operated by **Battelle** Since 1965*

# Risk for Offshore Wind to the Marine Environment: Dashboards

**Andrea Copping and Sharon Kramer**



**H. T. HARVEY & ASSOCIATES**

Ecological Consultants

# Floating Offshore Wind



Collision Risk for Seabirds



Risk for Cetacean Interactions



# Other Risks



Acoustic Effects  
(Operation)



EMF Effects



Effects on Physical Systems



Changes in Habitats

# Panel Questions

- ▶ What have you learned about these interactions from other industries, or from other locations (e.g., Europe)?
- ▶ What data do we need to collect to confirm this risk, and are we capable of collecting these data?
- ▶ Can the interaction be modeled and will the data we collect validate these models?
- ▶ What would potential BMPs look like? Are there mitigations available that would help reduce risk?



# Thank you!

Andrea Copping, PNNL – [andrea.copping@pnnl.gov](mailto:andrea.copping@pnnl.gov)

Sharon Kramer, HT Harvey - [skramer@harveyecology.com](mailto:skramer@harveyecology.com)

Francine Kershaw, NRDC - [fkershaw@nrdc.org](mailto:fkershaw@nrdc.org)

David Ainley, HT Harvey - [dainley@harveyecology.com](mailto:dainley@harveyecology.com)

Want to know more: visit Tethys  
<https://Tethys.pnnl.gov>

