



December 28, 2018

Happy holidays! This special end-of-the-year edition of Tethys Blast will provide some top ten lists from 2018. We hope you enjoy this brief look at another great year of progress in the wind and marine renewable energy industries.

Before we begin, two quick announcements...

Abstracts Due

The Marine Energy Technology Symposium (METS) will be held in Washington DC on 1-3 April 2019. Abstracts are due by 11 January 2019, submitted by email to arielle.cardinal@nrel.gov.

The EGU General Assembly will be held in Vienna on 7-12 April 2019. A special session will be held on marine renewable energy. [Abstracts are due by 10 January 2019](#).

Tethys Documents in 2018

Tethys has gained 569 documents within the last year! By looking at website analytics for Tethys during 2018, we can identify the top environmental documents viewed by the Tethys community.

Top 10 Wind Energy Documents

1. [Assessing Environmental Effects \(WREN\): Adaptive Management White Paper](#) – Hanna et al. 2016
2. [Environmental Impacts of Renewable Energy](#) – Spellman 2014
3. [Resolving environmental effects of wind energy](#) – Sinclair et al. 2018
4. [Electromagnetic Field \(EMF\) Impacts on Elasmobranch \(shark, rays, and skates\) and American Lobster Movement and Migration from Direct Current Cables](#) – Hutchison et al. 2018
5. [Environmental Impacts of Offshore Wind Farms in the Belgian Part of the North Sea: Learning from the Past to Optimise Future Monitoring Programmes](#) – Degraer et al. 2013

6. [A review of potential impacts of submarine power cables on the marine environment: Knowledge gaps, recommendations and future directions](#) – Taormina et al. 2018
7. [ORJIP Bird Collision and Avoidance Study](#) – Skov et al. 2018
8. [Considerations for Upscaling Individual Effects of Wind Energy Development Towards Population-Level Impacts on Wildlife](#) – May et al. 2019
9. [Bird Collisions at Wind Turbines in a Mountainous Area Related to Bird Movement Intensities Measured by Radar](#) – Aschwanden et al. 2018
10. [The Effects of Wind Power on Birds and Bats: An Updated Synthesis Report](#) – Rydell et al. 2017

Top 10 Marine Renewable Energy Documents

1. [Annex IV 2016 State of the Science Report: Environmental Effects of Marine Renewable Energy Development Around the World](#) – Copping et al. 2016
2. [The State of Knowledge for Environmental Effects: Driving Consenting/Permitting for the Marine Renewable Energy Industry](#) – Copping 2018
3. [Electromagnetic Field \(EMF\) Impacts on Elasmobranch \(shark, rays, and skates\) and American Lobster Movement and Migration from Direct Current Cables](#) – Hutchison et al. 2018
4. [2018 State of the Sector Report: Marine Renewable Energy in Canada](#) – Marine Renewables Canada 2018
5. [A review of potential impacts of submarine power cables on the marine environment: Knowledge gaps, recommendations and future directions](#) – Taormina et al. 2018
6. [Wave Power - Sustainable Energy Or Environmentally Costly? A Review With Special Emphasis On Linear Wave Energy Converters](#) – Langhamer et al. 2010
7. [Fish Distributions in a Tidal Channel Indicate the Behavioural Impact of a Marine Renewable Energy Installation](#) – Fraser et al. 2018
8. [First in situ Passive Acoustic Monitoring for Marine Mammals during Operation of a Tidal Turbine in Ramsey Sound, Wales](#) – Malinka et al. 2018
9. [Underwater operational noise level emitted by a tidal current turbine and its potential impact on marine fauna](#) – Lossent et al. 2017
10. [Ocean Thermal Energy Conversion \(OTEC\) Environmental Impacts](#) – NOAA 2010

Use of Tethys in 2018

Over 53,000 visited Tethys over the last year. This constitutes a mix of researchers, regulators, developers, stakeholders, and more. Here are some top ten lists to show who is using Tethys:

Top 10 Countries Accessing Tethys

1. United States – 19,887 users
2. United Kingdom – 6,124 users
3. Canada – 2,696 users
4. India – 1,854 users
5. France – 1,552 users
6. Australia – 1,350 users
7. Germany – 1,291 users
8. Spain – 1,018 users
9. Netherlands – 919 users
10. Japan – 746 users

Top 10 Cities Accessing Tethys

1. London, United Kingdom – 1,377 users
2. New York, United States – 837 users
3. Paris, France – 571 users
4. Boston, United States – 524 users
5. Washington DC, United States – 486 users
6. Edinburgh, United Kingdom – 449 users
7. Sydney, Australia – 425 users
8. Seattle, United States – 419 users
9. Los Angeles, United States – 360 users
10. Dublin, Ireland – 345 users

The Tethys Team

A team of researchers at PNNL were responsible for making Tethys happen. A special thank you to Andrea Copping, Alicia Gorton, Mikaela Freeman, Amy Woodbury, Heidi Stewart, Cailene Gunn, Kailan Mackereth, Adi Nugraha, Julie Indivero, and Jonathan Whiting for your time and effort.