Dear Mr. President,

We, the undersigned, are marine biologists with specific expertise on the North Atlantic right whale. We are writing out of profound concern over the impacts on this species from the introduction of seismic surveys for oil and gas exploration in the mid and south-Atlantic planning areas, which the Interior Department has proposed. Last month, your administration decided to remove the mid- and southeast Atlantic regions from offshore oil and gas leasing over the next five years. As right whale scientists, we believe it is imperative that you follow this action by suspending seismic oil and gas surveys in the Atlantic as well.

The North Atlantic right whale is among the most endangered whales on the planet, with only about 500 individuals remaining. Despite 40 years of federal protections under the Endangered Species Act and Marine Mammal Protection Act, recovery of the species has been painfully slow and, worrying, the latest data indicate that the population is no longer increasing in abundance, but may now actually be declining in numbers.\textsuperscript{1,2,3} The right whale’s declining population growth rate is thought to be directly linked to the disproportionately high level of human activity occurring along its east coast range, resulting in entanglements in fishing gear, underwater noise impacts, and exposures to other chronic stressors. Adding another major stressor to their environment in the form of seismic surveys would, we believe, substantially increase the risk that the population will slip further into decline and would jeopardize its survival.

Airgun surveys used for oil and gas exploration are known to have large-scale effects on baleen whale species, including the disruption of activities vital to foraging and reproduction over vast ocean areas.\textsuperscript{4,5,6} Most recently they have been linked to significant reductions in the probability of calf survival in western Pacific gray whales, another endangered baleen whale population.\textsuperscript{7} The ensonification of right whale habitats by seismic exploration is likely to disrupt essential behavior and degrade important habitat notwithstanding the mitigation measures proposed by the Interior Department, causing significant levels of stress that will further reduce right whale health and, consequently, fitness. There is already evidence that increased noise in right whale habitat causes chronic stress in this species,\textsuperscript{8} which has negative effects on animal health.

Notably, according to analysis by the New England Aquarium, even a small decline of only ten percent in right whale health can impair reproduction or eliminate it entirely.\textsuperscript{9} A newly published study shows that a population-wide deterioration in North Atlantic right whale health from 1998 to 2000 was correlated with a drastic drop in calving rates, further indicating that factors influencing health can be responsible for suppressing reproduction.\textsuperscript{9} Any meaningful environmental assessment of airgun surveys in the Atlantic must include a conservative, quantitative evaluation of its cumulative impacts on the whales’ health and reproductive rates over time, which the Interior Department has not done. A responsible approach would defer any
such analysis until after the National Oceanic and Atmospheric Administration’s (NOAA) next right whale status review, which is scheduled for 2017.

A responsible analysis of oil and gas survey impacts must also take account of new information on fishing gear entanglements in assessing the species’ current viability, the baseline against which the introduction of any additional stressor must be measured. Important new findings, based on a data set spanning 30 years compiled by the New England Aquarium, indicate that entanglements pose a greater threat to right whale viability than was previously known. Adult right whales freed from serious entanglement, where the whale is observed carrying fishing gear or bearing deep wounds, typically exhibit poorer health for years afterwards, reducing their survival rates and reproduction. This new finding adds to recently published analyses of right whale calves, showing that serious entanglement significantly reduces the probability of calf survival beyond one year.\(^\text{10}\) Right whale entanglements have significantly increased in number over the past three decades, with calves and juveniles affected at even greater rates than adults.\(^\text{10}\) This trend, combined with the new information about the long-term effects of entanglement on survival and reproduction, raises alarm about the species’ long-term viability.

In light of the desperate level of endangerment of the North Atlantic right whale and the serious consequences of entanglement, it is critical that other major stressors be minimized or removed to ensure the recovery and long-term survival of this species. The additional stress of widespread seismic airgun surveys may well represent a tipping point for the survival of this endangered whale, contributing significantly to a decline towards extinction.

Last year, a group of 75 marine scientists, expressing concern over “significant, long-lasting, and widespread impacts [from seismic surveys]” on the region’s marine mammal and fish populations, called on your administration “to reject the Interior Department’s environmental analysis and its decision to introduce seismic oil and gas surveys in the Atlantic.” That request is all the more urgent in light of the new information now available on the vulnerability of North Atlantic right whales. As you know, your administration’s decision to exclude the Atlantic from oil and gas leasing over the next five years does not affect the ongoing permitting process for seismic exploration. We therefore respectfully ask you to withdraw the Interior Department’s 2014 decision to introduce oil and gas surveys, which is based on an inadequate and outdated environmental impact statement, and to halt the permitting of oil and gas surveys off the east coast.

Sincerely,

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