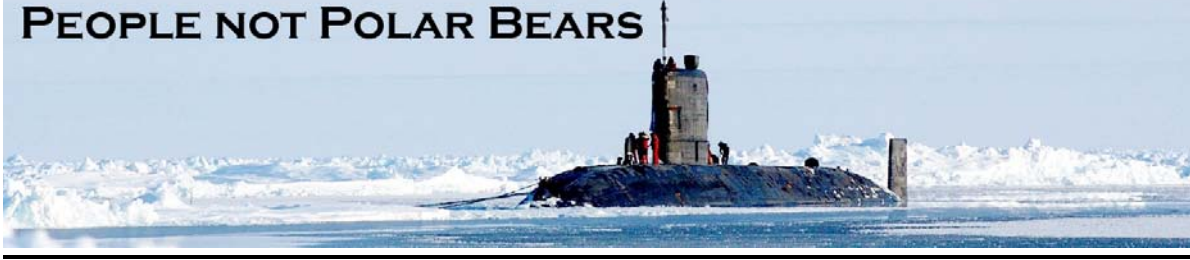


# THE ARCTIC & NATIONAL SECURITY: PEOPLE NOT POLAR BEARS



WITH DR. DAVID TITLEY

FRIDAY, NOVEMBER 20, 2015

10:00AM IN THE REITZ UNION AUDITORIUM



**David W. Titley** is a professor of practice in meteorology at [Pennsylvania State University](#) and the founding director of their Center for Solutions to Weather and Climate Risk. He was also [NOAA's](#) chief operating officer from 2012-2013. Before assuming these positions, he was a rear admiral and the chief oceanographer of the [U.S. Navy](#), in which he served for 32 years.

This brief will show where the Arctic and National Security fits within the larger discussion of climate change, both as discussed in the press and also with the U.S. Department of Defense (DoD). The presentation will cover the dramatic loss of sea ice extent and volume during the previous 20 years, new shipping routes opening up, examples of recent ship transits, and some thoughts on the future of shipping in and through the Arctic. The talk also will provide an overview of the National and DoD Arctic Strategy, and the U.S. National Implementation Plan. Dr. Titley will also discuss the U.S. Navy's renewed interest in the Arctic, some operational and financial considerations, a review of their current Arctic Roadmap in light of Russian actions and statements over the past year. Finally some specific investment opportunities and unexplored contingencies will be discussed.

While serving in the Navy, Titley initiated the Navy's Task Force on Climate Change. After spending over 10 years at sea, Titley commanded the Fleet Numerical Meteorological and Oceanographic Center in Monterey, Calif., and was the first commanding officer of the Naval Oceanography Operations Command. In 2009, Titley assumed duties as oceanographer and navigator of the Navy, and director of Task Force Climate Change. In 2011, he assumed responsibility for Navy Space and Maritime Domain Awareness. He serves on the CNA Corporation's Military Advisory Board.

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