## **BOSTON** UNIVERSITY Boston University College of Arts & Sciences Center for Space Physics

2019-2020 SPACE PHYSICS SEMINAR SERIES

## Space Weather Prediction: Benefits from the Research to Operations to Research Cycle

NOAA's Space Weather Prediction Center (SWPC) is the nation's official source of space weather watches, warnings and alerts with a mission to "deliver space weather products and services that meet the evolving needs of the nation." The scope of SWPC activities ranges from understanding the needs of those affected by space weather to the delivery of products, services and forecasts that protect national assets and human activities. To carry out this work we benefit from partnerships such as those with other agencies, universities, the international community and commercial service providers. In this presentation I will describe the continuum of activities involved in the research to operations process and the essential role played by scientific research throughout the process. We will identify research that is needed to provide better scientific understanding, to enable improved models and to carry out much needed observations. The presentation will highlight recent work on the transition of space weather models and radiation belt observations to

> Howard Singer NOAA Space Weather Prediction Center

## **Thursday, September 12th** 4:00-5:00 p.m. 725 Commonwealth Ave | Room 502

operations.