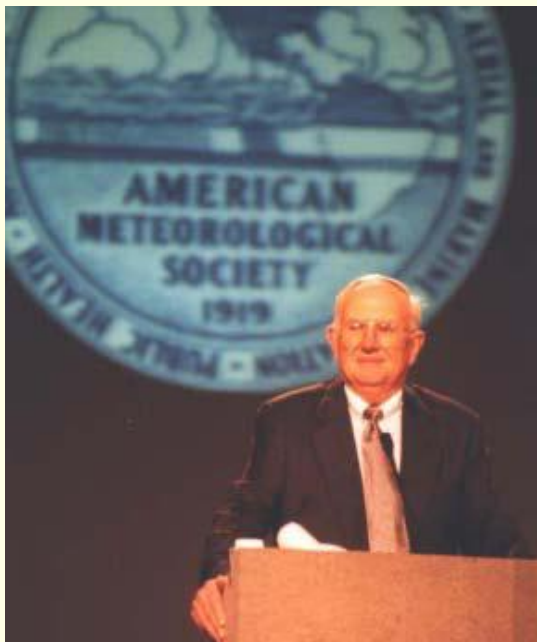


## The Eugene Rasmusson Lectures Fund

*University of Maryland has established [The Eugene Rasmusson Lectures Fund](#) to support this annual lecture series. Your charitable contribution at this website is gratefully acknowledged.*

*Alternatively, checks can be mailed to Rasmusson Lectures Fund (Attn: June Sherer) Department of Atmospheric & Oceanic Science 3407 Computer & Space Science Bldg. (224) University of Maryland College Park, MD 20742*



*Gene addressing the 1998 annual meeting of the American Meteorological Society as President*

## 2016 RASMUSSON LECTURER

Isaac M. Held

*Geophysical Fluid Dynamics Laboratory  
NOAA & Princeton University*

*Member, NAS*

2016  
Eugene Rasmusson  
Graduate Student Fellow

Daniel Anderson  
*Ph.D. Candidate*



Room 2400, Computer & Space Science Bldg.  
Stadium Drive, University of Maryland  
College Park, MD 20742; (301) 405 5391



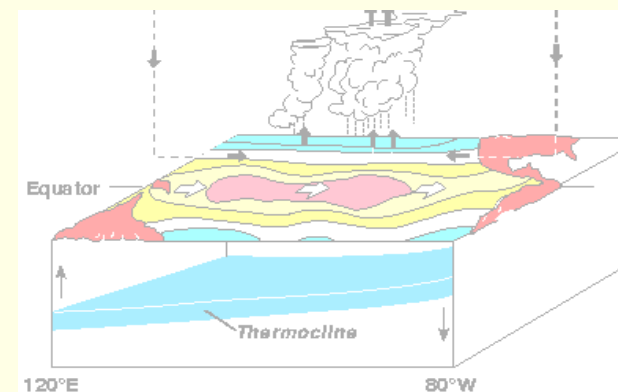
UNIVERSITY OF  
MARYLAND

DEPARTMENT OF  
ATMOSPHERIC & OCEANIC  
SCIENCE



27 February 1929 – 22 March 2015

## Eugene Rasmusson Lectures



31 March (Thursday), 2016  
Lecture: 6:00pm  
Reception: 5:00pm  
Auditorium (Rm 2400), CSS Bldg.

# Eugene Rasmusson Lectures

The Department of Atmospheric & Oceanic Science has launched annual lectures to honor Emeritus Research Professor Eugene M. Rasmusson who joined the department in May 1986. Gene is known for his seminal analysis of the atmospheric hydrologic cycle, an effort begun during his doctoral studies at MIT under Victor Starr. Gene is most well known for his observational description of ENSO. His characterization of the ocean-atmosphere state during various ENSO phases fostered theoretical and numerical modeling of this phenomenon.

Gene has been honored with the Starr lectureship at MIT, the Benton lectureship at Johns Hopkins, and the Robert Horton lectureship at the American Meteorological Society (AMS). Gene received the Jule Charney award from the AMS in 1989. Gene was a member of the National Academy of Engineering, and an associate of the National Academy of Sciences.

Gene's community leadership (as AMS President) and scientific leadership at the National Research Council and NOAA has advanced climate science. In 2007, AMS honored Gene with a named symposium.

Air Force Lt. Col. Eugene Martin Rasmusson passed away on 22 March 2015, and was laid to rest at Arlington National Cemetery with full military honors on 22 July 2015.

## 2016 RASMUSSON LECTURER

*Isaac M. Held*

### Tropical Cyclones and Global Climate Models: Entering a Golden Age of Research



Senior Research Scientist, NOAA/GFDL  
Professor of Geosciences  
Princeton University  
*Member, National Academy of Sciences*

31 March (Thursday), 2016  
Lecture: 6:00pm; Reception: 5:00pm  
Auditorium (Rm 2400), CSS Bldg.



#### **Abstract:**

In the 1970s-1990s, improving simulations of the macroturbulence of the midlatitude troposphere in global atmospheric models gradually provided a framework, through comprehensive and idealized modeling, for studying the dynamics underlying extratropical storm statistics and their influence on the general circulation.

A similar transition with global climate model simulations playing a central role in tropical cyclone research is occurring today. As in the extratropical case, some parts of the problem will be more recalcitrant than others, and research will continue for decades. But I will provide a few examples to argue that the time is ripe for rapid advances in our understanding of tropical cyclone statistics through global climate modeling, once again combining comprehensive and idealized simulations.