NOAA-NASA Workshop on Space-based Measurements of 3-Dimensional Winds

Event Details

Date
February 19, 2025 - February 20, 2025

Time
09:00 AM - 05:00 PM (EDT)

Event Type
In-Person & Online

Location
Earth System Science Interdisciplinary Center (ESSIC), College Park, MD

Registration

Workshop on Space-based Measurements of 3-Dimensional Winds

Get updates about new data available, satellite instrument development progress, and provide feedback on your changing needs and challenges.

Pre-registration required for both virtual participation and also for in-person attendance

Note: If you are a Foreign National visitor and you plan to attend in-person, please register no later than February 5th. We need to do some extra work to make sure that you will be allowed to enter the campus where the meeting will be held. **If you register after February 5th, we cannot guarantee that you will be able to attend the meeting in person.**

NOAA and NASA are collaborating to host a workshop on Space-based Measurements of 3-Dimensional Winds. This workshop will take place on February 19-20, 2025, and is the next in a series of meetings of the former NOAA/NASA Working Group on Space-based Winds, whose scope is being expanded to include passive as well as active wind measurement techniques. Because this will be the first meeting in more than 3 years, the workshop will provide an opportunity for the space-based winds community to reassemble and exchange information on recent developments relating to space-based winds measurements. The meeting will encompass two full days and will be held at the Earth System Science Interdisciplinary Center (ESSIC) in College Park, MD. Participants will also be able to present and participate online. Goals of the workshop are to update the space-based winds community on recent developments and explore future directions for space-based 3-dimensional wind measurements from space, including both active and passive techniques. The workshop sessions will include presentations and discussion on the following topics:

An inversion trapped low level moisture making for a stratus layer that flowed over and around neighboring peaks.
Mount Washington, New Hampshire. 2014. Credit: NOAA.

- US Federal Agency activities and plans relating to space-based winds measurements
- Needs for space-based wind measurements in the following areas
  - Weather prediction
  - Science exploration
  - Model improvement at all scales
  - Defense applications
  - Commercial satellite constellations and concepts
  - Renewable energy
  - Characterizing sources, sinks, and fluxes of pollutants, aerosols, and greenhouse gases
- Aeolus 1 technology, performance, impacts, and lessons learned
- Status of Aeolus 2
- Wind measurement concept studies and demonstrations
- Current state and new advances in technology for space-based winds
- OSSE studies assessing performance and impact of global winds
- Role of airborne measurements for testing and validation of space-based winds missions
- Synergy between this group and the International Winds Working Group
- International collaborations for space-based winds

Following the workshop, a report will be prepared summarizing the major meeting presentations, discussions, and recommendations.

We invite contributed talks relating to the above topics. If you are interested in presenting a talk, please email a one-paragraph abstract in pdf format summarizing the talk and (optionally) suggesting the topic for which the talk would be most relevant. Please send the abstracts to mike.hardesty@noaa.gov with the subject listed as "Abstract submission for NOAA/NASA space-based winds meeting". Deadline for receipt of abstracts is January 24, 2025.

It is required that you register to attend the workshop. The online registration form is available at:

https://docs.google.com/forms/d/e/1FAIpQLSeID-lh4MKS42geWDQwLRRAIMQwpIgC5Wc-if__Hm7uO3pFKQ/viewform?usp=sf_link

Submit an Abstract

We are soliciting presentations describing recent work associated with all aspects of 3D Winds Measurement from Space, including methods, impacts, technology, applications, missions, and recommended approaches. ***The deadline for submitting a one-paragraph abstract describing your presentation is January 24, 2025.***

Please send the abstracts in pdf format to mike.hardesty@noaa.gov with the subject listed as "Abstract submission for NOAA/NASA space-based winds meeting".

Meeting Logistics

We will use Zoom as the meeting platform for this meeting.

When you join the meeting in Zoom, one of the meeting organizers will approve your request to join the meeting. Please be patient, as this may take a few moments at the start of the meeting. We recommend that you remain in the Zoom meeting space during the meeting, to minimize the amount of time you spend waiting to be admitted.

Once you are in the meeting, please mute your microphone to keep the background noise level low.

We will be using the Sli.do platform (https://www.slido.com/) to facilitate asking questions during the meeting. You will be able to submit your questions, as well as up-voting other people's questions that are of interest to you.

Directions & Transportation to ESSIC

ESSIC is a part of the University of Maryland's Research and Technology Park in College Park, MD.

Address:

5825 University Research Court, Suite 4001

College Park, Maryland, 20740

Driving Directions

- From Silver Spring, MD
- From Reagan National Airport
- From Baltimore-Washington International Airport
- From Dulles Airport

Mass Transportation

The College Park Metro Station on the Metro Green Line is located approximately 1 mile from ESSIC.

Upon Arrival

- The building is on the right-hand side of the circular court as you enter.
- Parking in the lot is free, with ample parking spaces.
- The meeting will be held on the fourth floor in Suite 4001.
- Enter the building, and take the elevator to the fourth floor.
- Exit to the right through the double glass doors.
- Please sign in at the front desk to receive your name tag and additional information.

Nearby Hotels

- The Hotel at the University of Maryland
- Cambria College Park
- Holiday Inn College Park
- Residence Inn College Park
- Hilton Garden Inn Greenbelt
- Comfort Inn & Suits College Park

Return to top