



IMPACTS

Science Team Meeting

Introduction

<https://espo.nasa.gov/impacts/>

Agenda

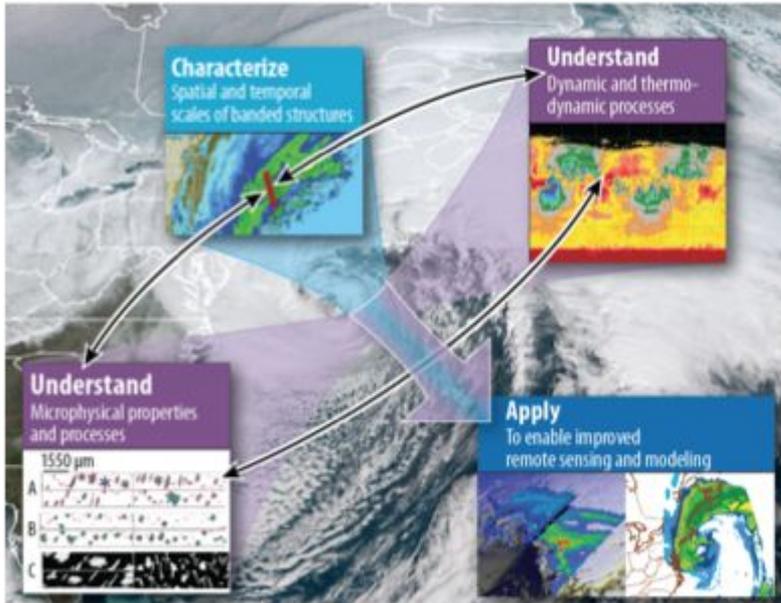


1. Welcome and overview (10 minutes)
2. Science Team Meeting Logistics (10 minutes)
3. Budgets (15 minutes)
4. Q&A (30 minutes)

Background (Lynn/Gerry/John/Scott)



Investigation of Microphysics and Precipitation in Atlantic Coast-Threatening Snowstorms



- Snowstorms disrupt transportation, commerce and public safety
- Snowband structures result from multi-scale processes and are poorly understood
- Snowfall distribution, intensity and amount is often poorly predicted
- Remote sensing of snow from space difficult
- No major field study of East Coast US snowstorms has occurred over the last 30 years

1 CHARACTERIZE the spatial and temporal scales and structures of snowbands in Northeast US winter storms

2 UNDERSTAND the dynamical, thermodynamical, and microphysical processes that produce the observed structures

3 APPLY this understanding of the structures and underlying processes to improve remote sensing and modeling of snowfall

Background (Lynn/Gerry/John/Scott)



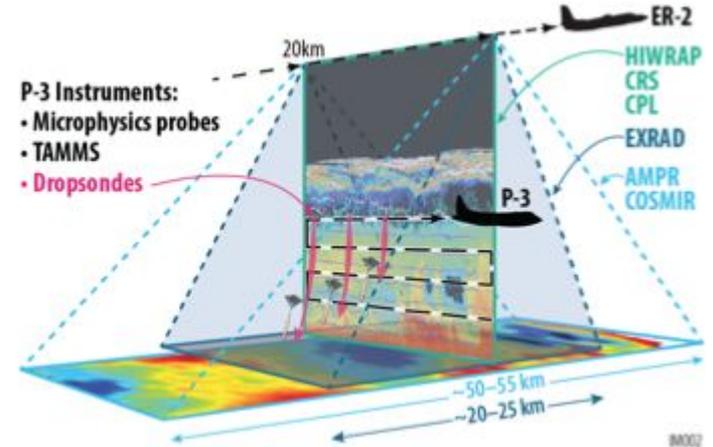
Observational Strategy: Jan-Mar 2020-2022

Aircraft:

- Active and passive remote sensing instruments on the ER-2 (Warner Robins)
- In-situ microphysical instruments and dropsondes on the P-3 (Wallops)

Ground:

- Mobile soundings from SUNY Stony Brook and UIUC
- Ground-based radars from SUNY Stony Brook
- New York State mesonet
- Supplemental soundings from NOAA



Background (Lynn/Gerry/John/Scott)



Questions/Discussions for the Science Team Meeting:

- Types of storms we would sample
- Aircraft operations decision criteria
- Flight tracks & coordination of aircraft
- Staffing/Scheduling during operations: Mission Scientists, student forecasters, operations director, P-3 dropsonde operators and scientists
- In field data management and real-time data downlinking
- Data products and archival timeline
- Partners and parallel projects
- Risks to IMPACTS flights/science (weather, instrument issues, fly-decisions)
- Science descopes - cost management

Science Team Meeting

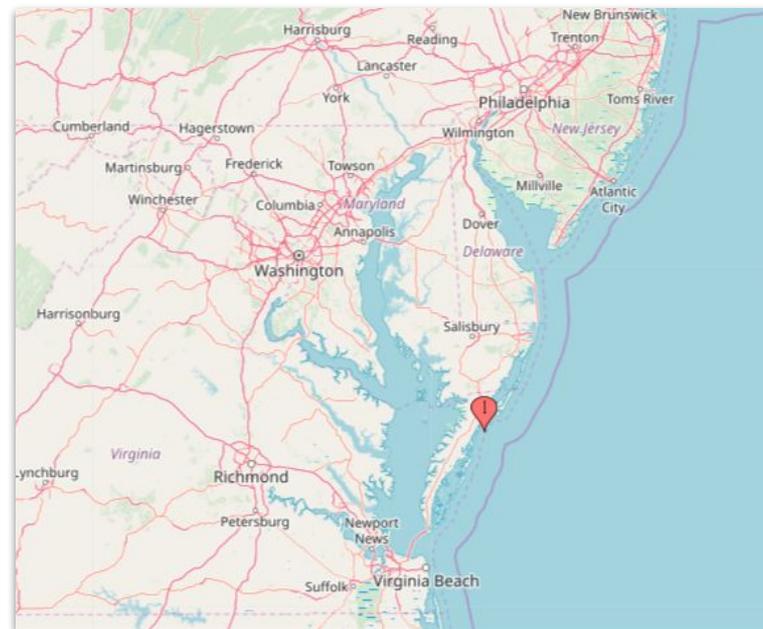


When: Monday April 15th - April 17th

Where: Wallops Flight Facility

Lodging: Comfort Suites, Marina Bay, and
Best Western

Transportation: Personal vehicles



Views from Chincoteague Island



Science Team Meeting Agenda



Note: Arrive **early** for badging purposes (Opens at 6am)

Meeting Start: 8:30 AM Monday-Wednesday

Breaks: We will have an AM/PM coffee break and lunch is on your own

Teleconference: Available via Webex

- Come prepared for all-day discussions
- The agenda is available online at **espo.nasa.gov/impacts**
- **Special Note:** April 17 at 4:46 p.m. is the Northrop Grumman Resupply Mission to the International Space Station from Wallops Island:

https://www.nasa.gov/mission_pages/station/structure/launch/northrop-grumman.html

Budget



- Purpose for budget requests
 - We need to finalize the total budget before the ICR
 - We have a cap
- Travel vs. General Needs
 - Separate Travel from your general science budget
 - For many, this is black and white. However, some scientists have costs associated with mobile instruments that are tied to a university. This is distinct from personal travel reimbursement (hotels, food, airfare, etc.). We will go over these differences to ensure everyone has the correct items in the correct budget categories.
- Project Timeline & Integration
 - Reminder of our deployment timelines to ensure travel budgets are accurate.
 - Do you need to budget travel for integration? If so, have you included that time in your travel budget?
 - Integration time starts as early as November.

Integration & Deployment



IMPACTS IIP Timeline 2019 - 2020

			October	November	December	January	February	March
12	Confirmation Meeting	10/14/19 10/17/19	█					
13	Science Team Meeting	10/14/19 10/18/19	█	█	█			
14	Integration P-3	11/12/19 12/17/19		█	█	█		
15	Integration ER-2	12/2/19 12/13/19			█	█		
16	Test Flights ER-2	12/16/19 12/18/19			█	█		
17	Science Flights ER-2	1/9/20 3/5/20				█	█	█
18	Test Flights P-3	1/13/20 1/16/20				█		
19	Science Flights P-3	1/21/20 2/28/20				█	█	
20	Download P-3	3/2/20 3/6/20						█
21	Download ER-2	3/2/20 3/6/20						█

Any Questions?

