

IMPACTS Science Team Meeting 2020

Webex Virtual Meeting July 27th-29th

All Times in PDT

Overview of Meeting - what do we need to accomplish:

- Overview of 2020 operations
- Status of instruments and aircraft
- Science and data analysis currently being conducted
- Lessons learned from 2020
- Make decisions for 2021 operations
 - Op center staffing
 - Flight strategies
 - Ground operations

Monday, July 27th

Overview of Campaign

Recap of 2020 1st deployment

Instrument updates

Data products and updates

0730 Morning Mingle (*We are using a new Webex Breakout Session tool and would like everyone to make sure they can join without issues*)

0755 Meeting Webex Best Practices

0800 Overview of IMPACTS Science and Management (Session Chair - Vidal Salazar)

- 0800 Opening Remarks & Introduction - Lynn McMurdie
- 0805 Remarks from Headquarters - Gail Skofronick-Jackson
- 0815 Recap of 2020 Campaign - Lynn McMurdie
- 0840 Data Status and Field Catalog - Stacy and Leigh Sinclair
- 0900 IMPACTS PM Status Report - Vidal Salazar

0915 Highlights from ER-2 Instrument PIs During the 2020 Campaign (Session Chair - John Yorks)

- Instrument performance, data issues and status, calibration
- 0915 Opening Remarks from Session Chair
- 0920 CRS, EXRAD, HIWRAP - Matt McLinden and Lihua Li

0930 AMPR - Tim Lang
0940 CosMir - Matt Fritts, Rachael Kroodsma
0950 CPL - Matt McGill or John Yorks
1000 LIP - Chris Schultz

1010 Discussion on ER-2 Topics Facilitated by Session Chair

1030 Break until 1200 PDT

1200 Highlights from P-3 Instrument Pls during the 2020 Campaign (Session Chair - Gerry Heymsfield)

1200 Opening Remarks from Session Chair
1205 P-3 - Pylons and Mishap Investigation - Kelly Griffin
1215 P-3 Probes - Mike Poellot
1230 PHIPS - Martin Schnaiter
1240 WISPER - Darrin Toohey
1250 TAMMS and AVAPS - Lee Thornhill
1300 Microphysics Products - Aaron Bansemer

1315 Discussion About the P-3, Probe Analysis and Products (Session Chair - Gerry Heymsfield, continued)

1340 Ground Instruments (Session Chair - Lynn McMurdie)

1340 SBU Ground Instruments and Soundings- Brian Colle and Pavlos Kollias
1400 Mobile Soundings - Bob Rauber
1415 End for day

Tuesday, July 28th:

Science Talks

- Presentations should consist of ~5 slides - 10 min total
- Optional: Supplement material can be placed in our [IMPACTS G-Drive](#)
- Suggestions for science presentations (not required)
 - Science questions and methodologies, which cases?
 - What are the initial results and how do they relate to our sampling strategy?
 - Any problems with the data?

0755 Meeting Webex Best Practices

0800 Science Presentations by CO-I of IMPACTS (Session Chair - Lynn McMurdie)

0800 Opening Remarks by Chair
0805 UW - Lynn McMurdie
0815 UIUC - Bob Rauber
0825 UofO - Greg McFarquhar
0835 SUNY Stony Brook - Brian Colle
0845 NCSU - Sandra Yuter
0855 PSU - Matt Kumjian/Steven Greybush
0905 NASA Goddard - Gerry Heymsfield and John Yorks
0915 NCAR - Andy Heymsfield and Aaron Bansemer

0930 Science Presentations on Products Made by the Science Team That Will Be Available to the Whole Science Community (Session Chair - Scott Braun)

0930 Radar and Radiometer Combined Retrievals: Mircea Greu (still researching)
0940 Radar Wind Retrievals: Chip Helms and Steve Guimond
0950 Steve Nicholls (Radar/Lidar combined product) and Gerry Heymsfield

1000 Discuss Scientific Collaborations, Publication Plan and Timeline (Lead - Lynn McMurdie)

1030 Break Until 1200 PDT

1200 Break-out Discussion Groups on Lessons Learned from 2020 Deployment

Opening remarks by Chair (Lynn) then break-out into groups - Lessons Learned.
Each Group to Discuss:

- What worked well?
- What didn't work well?
- In a COVID free world what would you do in 2021?
- There will be a moderator for each break-out group

1200 First set

- Forecasting (number of forecasters, etc.) - **Moderator Joe Finlon/Stephen Nicholls**
- Flight planning - patterns, how we draw them up - **Moderator John Yorks/Sandra Yuter**

1245 Second Set

- Flight operations/Ground operations - **Moderators Bob Rauber/Scott Braun**
- P-3 measurements - **Moderator Gerry Heymsfield/Aaron Bansemer**

1330 Recap with all participants

Wednesday, July 29th:

Focus: 2021 Operations

0800 Overview of what we might expect concerning COVID restrictions

- COVID restrictions: Overview given by ESPO - Vidal
- COVID Group Poll - results shared with group

0815 Small Group Discussions: Ops Center Under COVID 2021

- Everyone discusses these topics in small facilitated groups
- Set stage for future
- Breakout groups: - Ops Center Wallops focused
 - **Gerry:** Flight operations, Flight planning subgroup
 - **John:** Minimize our footprint - what can be done from home
 - **Scott:** Safety plans and Ops center staffing
 - **Sandra and/or Matt Miller:** planning/operations
 - **Greg Mc:** Staffing for forecasting/flight, Who can show up to do the work due to concerns/issues they have?
 - **Bob R:** Overall logistics discussion
 - **Brian Colle:** Forecasting
 - **Vidal:** Operation Center staffing: ESPO, Science Team, Forecasting Team, What are people's tolerances? We cannot guarantee 100% safety, Logistics

0915 Break out Sessions: Operations 2021

- ER-2 Base - required science/instrument personnel - **Hosted by Brian Hobbs**
- P-3 - required flight scientist/instrument personnel - **Hosted by Mike Cropper**
- Ground operations - **Hosted by Brian Colle and Bob Rauber**

1000 - 1100 Break

1100 Discuss and Recap with Full Group Conclusions from Break-out Groups

1130 Summary of Science Team Meeting - Identify Action Items, Assign Tasks (Lynn and Vidal will moderate)