

## Fall 2025 FPAW Meeting

**October 7-9, 2025**  
**Campbell Scientific**  
**815 W. 1800 N., Logan, UT 84321**  
**(435) 227-9000**

**Meeting Theme:** Sensing and Observing the Atmosphere

**Meeting Room:** Building 4 Meeting Room unless otherwise indicated

**Lunch:** Food trucks will be available outside Building 4 during the designated lunch times

**Suggested Dress Code:** Business casual (ties, except for bolos, are discouraged 😊)

### Meeting Agenda

**Note #1:** All Session Days and Session Topics are set; Presenters, Orders of Presentation, Times and In-Person or Remote [r] Participation are subject to change

**Note #2:** Note #1 is even more relevant given the current state of the federal government

**Key:**

Breaks or Lunch	Special Event
Social Event	Tours

**FPAW Steering Committee (SC) Member**

**Student**

[r] Remote

Day 1, Tuesday, October 7, 2025		
Start	Stop	Activity
<b>0830M</b>	<b>0850M</b>	<b>Fall 2025 FPAW Meeting Opening Remarks and Keynote Address</b>
0830M	0845M	<b>Campbell Scientific Welcome, Keynote Address</b> (Jesse Heers/Campbell Scientific and Rob Campbell/CEO - Campbell Scientific)
0845M	0850M	<b>FPAW Co-Chairs Welcome, Goals and Objectives of the Fall 2025 FPAW Meeting</b> ( <b>Matt Fronzak</b> /MITRE, <b>Nathan Polderman</b> /United Airlines and <b>Matthias Steiner</b> /NCAR, FPAW Co-Chairs)
<b>0850M</b>	<b>1130M</b>	<b>Session 1a – Wea</b>
0850M	0855M	<b>Opening Remarks</b> ( <b>Scott Landolt</b> /NCAR and <b>Elizabeth Wilson</b> /Synoptic Data [r], Session Co-Leads)
0855M	0910M	<b>FAA Flight Standards Perspective on Weather Certification</b> (Tom Ryan/FAA [r])
0910M	0925M	<b>What's In a METAR? Insight into Creating an Automated Observation</b> ( <b>Scott Landolt</b> )
0925M	0940M	<b>AWxS Shortfalls (Location, Representativeness and Measurement Errors)</b> (Randy Bass/Bass Weather Services LLC)
0940M	0955M	<b>Weather Observations in Alaska – Importance and Challenges</b> (Greg Dyer/Woolpert)
<b>0955M</b>	<b>1010M</b>	<b>Break</b>
1010M	1025M	<b>AWxS Modernization</b> (Kent Jensen/Campbell Scientific)
1025M	1040M	<b>Non-Fed AWxS – What's Different?</b> (Andrew Kuchel/Mesotech)
1040M	1055M	<b>On Using Lightning Information from AWxS</b> (Heather Reeves/OU-CIWRO)
1055M	1125M	<b>Panel Discussion – ASOS/AWOS Advantages, Challenges and the Future</b> Moderator – <b>Scott Landolt</b>

		Panelists – Randy Bass, Greg Dyer, Kent Jensen, Andrew Kuchel, Heather Reeves, <i>Tom Ryan [r]</i>
<b>1125M</b>	<b>1225M</b>	<b>Lunch</b>
<b>1225M</b>	<b>1440M</b>	<b>Session 1b – Cleared for Takeoff: Improving Aviation Decisions through Better Weather Observations</b>
1225M	1230M	<b>Post-Lunch Remarks</b> ( <b>Scott Landolt</b> and <b>Elizabeth Wilson [r]</b> )
1230M	1250M	<b>Correlating Information from Certified and Non-Certified Weather Sources</b> (Gary Pokodner/FAA)
1250M	1310M	<b>An Inventory of Non-Certified Weather Sources</b> ( <b>Elizabeth Wilson [r]</b> )
1310M	1330M	<b>Testing and Evaluating ASTM F38 Weather Standards</b> (Chris Zarzar/TruWeather)
1330M	1350M	<b>Flipping the Observation Paradigm on its Head</b> ( <i>Ethan Krimins/Flight Profiler [r]</i> )
<b>1350M</b>	<b>1405M</b>	<b>Break</b>
1405M	1435M	<b>Panel Discussion – On Using Non-Certified Weather Information in the NAS</b> Moderator – <b>Scott Landolt</b> Panelists – Jesse Heers, <i>Ethan Krimins [r]</i> , Gary Pokodner, <b>Elizabeth Wilson [r]</b> , Chris Zarzar
1435M	1440M	<b>Closing Remarks</b> ( <b>Scott Landolt</b> and <b>Elizabeth Wilson [r]</b> )
<b>1445M</b>	<b>1545M</b>	<b>Session 2: Updates from the FAA</b>
1445M	1515M	<b>FAA Weather Community of Interest (Wx COI) Update to FPAW</b> ( <i>Starr McGettigan/FAA [r]</i> and Doug Murphy/FAA, Wx COI Co-Chairs)
1515M	1545M	<b>FAA NextGen Weather Processor (NWP) and Common Support Services – Weather (CSS-Wx) Update</b> (Doug Murphy/FAA)
<b>1600M</b>	<b>TBD</b>	<b>FPAW Social Event</b>
1600M	TBD	<b>Dirty Data Mixer</b> Jesse Heers will kick off this Campbell Scientific-sponsored event, which will include light refreshments, and will enable in-person FPAW participants to mingle with Campbell Scientific employees, Utah State University aviation technology students, faculty and administrators, and one another, in an informal setting. Please make sure to wear your Spring 2025 FPAW Meeting badges so that folks know who you are!

Day 2, Wednesday, October 8, 2025		
Start	Stop	Activity
0830M	0835M	<b>Day 2 Welcome</b> ( <b>Matt Fronzak</b> /MITRE, <b>Nathan Polderman</b> /United Airlines and <b>Matthias Steiner</b> /NCAR, FPAW Co-Chairs)
<b>0835M</b>	<b>1130M</b>	<b>Session 3a – METARs: The Good, The Bad and The Ugly</b>
0835M	0840M	<b>Opening Remarks</b> (Bryan Beck/Turbulent Aerospace and <b>Mike Splitt</b> /Florida Tech, Session Co-Leads)
0840M	0905M	<b>Two Sides of the Coin: METAR Representativeness for Gustiness and Obscurations</b> ( <b>Mike Splitt</b> )
0905M	0930M	<b>Airport Wind Gaps</b> (Bryan Beck)
0930M	0955M	<b>Enhancing METAR Literacy with Immersive Visuals at <a href="https://asosweather.com">asosweather.com</a></b> ( <i>Chandler Zuck/Embry-Riddle Aeronautical University</i> )
<b>0955M</b>	<b>1020M</b>	<b>Break</b>
1020M	1130M	<b>Close the METAR Gaps: Small Workgroup Brainstorming on Challenging Airport Weather Scenarios</b> ( <b>Mike Splitt</b> )
<b>1130M</b>	<b>1230M</b>	<b>Lunch</b>
<b>1230M</b>	<b>1400M</b>	<b>Session 3b – METARs: The Good, The Bad and The Ugly</b>
1230M	1235M	<b>Post-Lunch Remarks</b> (Bryan Beck and <b>Mike Splitt</b> )

1235M	1300M	Review of the Qualtrics Feedback from the Close the METAR Gaps: Small Workgroup Brainstorming on Challenging Airport Weather Scenarios ( <b>Mike Splitt</b> )
1300M	1340M	<b>Panel Discussion – Rethinking METARs: Relevance, Utility and the Future of Aviation Weather Reporting</b> <ul style="list-style-type: none"> <li><b>Smarter Skies: METAR Integration with AI and Metadata for Realtime Flight Planning, Aviating and Dispatch</b></li> <li><b>Mind the Gaps: Governance, Observational Gaps and Solutions for Airport Weather</b></li> </ul> Moderator – <b>Nathan Polderman</b> Panelists – <b>Christian Amaral</b> , <i>Doug Morris [r]</i> , <b>Mike Splitt</b> , David Strand, <b>Chandler Zuck</b>
1340M	1345M	Closing Remarks (Bryan Beck and <b>Mike Splitt</b> )
<b>1345M</b>	<b>1400M</b>	<b>Break</b>
<b>1400M</b>	<b>1430M</b>	<b>Session 4 – Research into Remote Turbulence Detection</b>
1400M	1430M	<b>Safety of Flight Challenge: Reducing the Impact of Turbulence</b> ( <i>Brian Pettegrew/MITRE [r]</i> )
<b>1430M</b>	<b>1530M</b>	<b>FPAW Special Event – Recognizing Aviation Weather Leadership</b>
1430M	1440M	<b>On Working with Matthias (<b>Matt Fronzak</b>)</b>
1440M	1450M	<b>From One FPAW Leader to Another (<b>Bruce Carmichael/NCAR [ret.]</b>)</b>
1450M	1510M	<b>Long Overdue, Surprise Recognition of the Father of FPAW, Bruce Carmichael (<b>Matt Fronzak</b>, <i>Warren Qualley/American Airlines, Harris Corp., Southwest Airlines [ret.] [r]</i>, <i>Wayne Sand/Big Sky Weather Consulting [r]</i>)</b>
1510M	1515M	<b>Presentation of Awards</b> (Jesse Heers/Campbell Scientific and <b>Matt Fronzak</b> )
<b>1530M</b>	<b>1630M</b>	<b>Post-Meeting Tours (sign-up encouraged but not required)</b>
1530M	1630M	<b>Tours of Campbell Scientific:</b> <b>Instrumentation Garden*</b> (Nick Demetriades/Campbell Scientific) and <b>Manufacturing Facility</b> (Nate Leishman/Campbell Scientific) <i>*Tour participants are reminded that the Campbell Scientific Instrumentation Garden is outdoors, and urged to consider having appropriate outerwear available if needed.</i>
<b>1830M</b>	<b>????M</b>	<b>FPAW Dinner (sign-up encouraged but not required)</b>
1830M	????M	Prodigy Brewing (Basement) 25 W. Center St., Logan, UT 84321 Phone: (435) 375-3313 Menu: <a href="http://prodigy-brewing.com">prodigy-brewing.com</a>

Day 3, Thursday, October 9, 2025		
Start	Stop	Activity
<b>0830M</b>	<b>0835M</b>	<b>Day 3 Welcome (<b>Matt Fronzak</b>/MITRE, <b>Nathan Polderman</b>/United Airlines and <b>Matthias Steiner</b>/NCAR, FPAW Co-Chairs)</b>
<b>0835M</b>	<b>1245M</b>	<b>Session 5 – Flying in Complex Weather: Mountain and Winter Weather Operations</b>
0835M	0840M	<b>Opening Remarks</b> (Apoorva Bajaj/Climavision and Robert Gillies/USU, Session Co-Leads)
0840M	0910M	<b>Session 5 Keynote – Everest: High Altitude Helicopter Rescue at the Top of the World</b> ( <i>Capt. Vijay Lama and Capt. Bhogendra Kathayat, PhD/Nepal Airlines [r]</i> )

<b>0910M</b>	<b>1020M</b>	<b><i>Session 5a – Flying in Complex Weather: Perspectives from the Field</i></b>
0910M	0930M	<b>An Introduction to Flying in Complex Weather</b> ( <i>Wayne Sand [r]/Big Sky Weather Consulting</i> )
0930M	1025M	<b>Panelist Remarks/Presentations</b> <b>Steamboat Surprise: Misadventures in Mountain Flying</b> ( <b>Christian Amaral</b> /ALPA) <b>Flying in Complex Weather: An Alaska VFR Example</b> (Tom George/AOPA) <b>High Altitude Airports: Weather, Performance and Operational Considerations</b> (Bryce Moore/Campbell Scientific) <b>On Flying a Boeing 757 in Complex Terrain and Impactful Weather</b> (David Strand/MITRE)
1025M	1050M	<b>Panel Discussion – Perspectives from the Field</b> Moderator – Beth Welliver/Joby Aviation Panelists – <b>Christian Amaral</b> , Tom George, <i>Robert Gillies [r]</i> , Bryce Moore, <i>Wayne Sand [r]</i> , David Strand
<b>1050M</b>	<b>1105M</b>	<b>Break</b>
<b>1105M</b>	<b>1210M</b>	<b><i>Session 5b – New and Updated Winter Weather Products</i></b>
1105M	1110M	<b>Opening Remarks</b> (Randy Bass/Bass Weather Consulting)
1110M	1210M	<b>Panelist Remarks/Presentations</b> <b>Winter Weather Dashboard</b> ( <i>Nicole Starzec/NWS AWC [r]</i> ) <b>NCAR-FAA Snow Machine</b> ( <b>Scott Landolt</b> /NCAR) <b>FAA Winter Weather Research</b> ( <b>Scott Landolt</b> /NCAR) <b>Advancements in Sensor Types</b> (Richard McKay/Campbell Scientific)
<b>1210M</b>	<b>1245M</b>	<b><i>Session 5c – Weather Radar and Winter Weather</i></b>
1210M	1215M	<b>Opening Remarks</b> (Apoorva Bajaj)
1215M	1235M	<b>Panelist Remarks/Presentations</b> <b>MRMS Winter Wx Products – Current and Planned R2O</b> ( <i>Andrew Rosenow/OU-CIWRO [r]</i> ) <b>Lake Effect Snow and Gap-Filling Radar</b> (Apoorva Bajaj)
1235M	1250M	<b>Panel Discussion – New and Updated Winter Weather Products and Weather Radar and Winter Weather</b> Moderator: Heather Reeves/OU-CIWRO Panel: <b>Scott Landolt</b> , Richard McKay, <i>Andrew Rosenow [r]</i> , Apoorva Bajaj
<b>1250M</b>	<b>1345M</b>	<b>Lunch</b>
<b>1345M</b>	<b>1500M</b>	<b><i>Session 6 – FPAW Organizational Update and Mini-Planning Meeting</i></b>
1345M	1415M	<b>FPAW Organizational Update</b> ( <b>Matt Fronzak</b> and <b>Matthias Steiner</b> , Session Co-Leads) The FPAW Co-Chairs will share organizational items of interest, including the makeup of the FPAW Steering Committee (SC) effective October 1, 2025, and the possible introduction of a new category of FPAW SC member
1415M	1445M	<b>FPAW Mini-Planning Meeting and Q&amp;A</b> ( <b>Matt Fronzak</b> and <b>Matthias Steiner</b> , Session Co-Leads ) The FPAW Co-Chairs will provide the latest information about upcoming FPAW events, and particularly the location and dates for the Spring 2026 (can you believe it – 2026?) FPAW meeting, and be prepared to receive input from the FPAW community
1445M	1500M	<b>Closing Remarks</b> ( <b>Matt Fronzak</b> and <b>Matthias Steiner</b> , FPAW Co-Chairs)