

**Agenda for AR Recon Workshop 2020**  
**Monday – Wednesday June 29-July 1, 2020**

**Registration:** <https://www.eventbrite.com/e/atmospheric-river-reconnaissance-ar-recon-workshop-tickets-107005402038>

**CALL-IN INFORMATION**

**Please join my meeting from your computer, tablet or smartphone.**

<https://www.gotomeet.me/AnnaWilson5/atmospheric-river-reconnaissance>

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**All talks will be 20 minutes + 10 minutes discussion**

**Monday, June 29, 2020, 8:00-11:00 am Pacific; 1500-1800 UTC (Remaining times in PDT)**

07:30 – 08:00 am: Arrival – testing to make sure connections work

08:00 – 08:15 am: Opening remarks, welcome (Marty Ralph, CW3E; Vijay Tallapragada, NCEP; Jim Doyle, NRL)

08:15 – 08:30 am: AR Recon overview, goals of the meeting (Marty Ralph, CW3E)

**Session I: AR Recon: Operations and Research Partnership**

08:30 – 09:00 am: The Influence of Antecedent Atmospheric River Conditions on Extratropical Cyclogenesis– Zhenhai Zhang, CW3E

09:00 – 09:30 am: NOAA G-IV Atmospheric Rivers Recon 2020-2021: Portland, OR – Where Next? – Jack Parrish, NOAA AOC

09:30 – 10:00 am: Lt Col Ryan Rickert, Air Force Reserves

10:00 – 10:30 am: GPS-RO – Progress so far and future plans – Jennifer Haase, SIO

10:30 – 11:00 am: AR Recon Buoy Deployments and Impact Assessments (Anna Wilson, CW3E; David Lavers, ECMWF; Aneesh Subramanian, CU Boulder)

**Tuesday, June 30, 2020, 8:00-11:00 am Pacific; 1500-1800 UTC (Remaining times in PDT)**

07:30 – 08:00 am: Arrival – testing to make sure connections work

08:00 – 08:05 am: Opening remarks, welcome (Marty Ralph, CW3E; Vijay Tallapragada, NCEP; Jim Doyle, NRL)

08:05 – 08:20 am: Recap of Day 1, goals of day 2 (Vijay Tallapragada, NCEP)

### **Session II: Modeling, DA and Impact Studies**

08:20 – 08:50 am: NCEP – Vijay Tallapragada and Xingren Wu

08:50 – 09:20 am: Regional AR Recon Data Denial Experiments – Luca Delle Monache, CW3E

09:20 – 09:30 am: BREAK

09:30 – 10:00 am: NRL Sensitivity and Observation Impact Studies – Jim Doyle and Carolyn Reynolds, NRL

10:00 – 10:30 am: ECMWF Diagnostics using AR Recon observations – David Lavers, ECMWF

10:30 – 11:00 am: Impact of dropsonde and satellite radiance data assimilation derived from OSEs and adjoint-sensitivity tool for two AR events in 2019 – Jake Liu, NCAR

### **Wednesday, July 1, 2020, 8:00-11:00 am Pacific; 1500-1800 UTC (Remaining times in PDT)**

07:30 – 08:00 am: Arrival – testing to make sure connections work

08:00 – 08:05 am: Opening remarks, welcome (Marty Ralph, CW3E; Vijay Tallapragada, NCEP; Jim Doyle, NRL)

08:05 – 08:20 am: Recap of Days 1-2, goals of day 3 (Jim Doyle, NRL)

### **Session II: AR Recon Vision – Facilitated Discussions**

08:20 – 08:50 am: Sampling strategies 2021 and beyond

- What have we learned about sampling strategies from the observation impact and data denial studies?
- Adjoint and ensemble sensitivities – what have we learned and what are the future directions for these tools?
- Sampling strategies for other sensors (GPS/RO) and ocean buoys?

08:50 – 09:20 am: NWSOP Now and Future

09:20 – 09:30 am: BREAK

09:30 – 10:00 am: AR Recon Atlantic

10:00 – 10:30 am: NAWDIC (led by NAWDIC team)

- Questions on scientific aims and scope
  - What could possibly be the area of operation of US Atlantic AR Recon flights? Is it limited to the East Coast of North America or is there a chance to measure ARs making landfall in western Europe? What time of the year is most feasible for the AR Recon aims?
  - Are AR Recon flights targeting regions of strong horizontal water vapor transport per-se independent of HIW or not?
- Questions on campaign preparation
  - What is the timeline for the preparation of an US Atlantic AR Recon initiative? How flexible are involved partners with respect to the planning e.g. of the year, operation location etc.? When will grant applications need to be submitted, when will be decided on proposals, and when will AR Recon partners need final information regarding the availability of HALO?
  - Will we need or mutually profit from a formal collaboration agreement?

10:30 – 11:00 am: Moderated Open Discussion - Next Steps