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.
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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
09:30 – 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
    o 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?
    o Are AR Recon flights targeting regions of strong horizontal water vapor transport per-se independent of HIW or not?
  • Questions on campaign preparation
    o 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?
    o Will we need or mutually profit from a formal collaboration agreement?
10:30 – 11:00 am: Moderated Open Discussion - Next Steps