



**World Weather Research Programme
(WWRP)**



**Standing Committee on Services for
Aviation (SC-AVI)**

A subsidiary body of WMO's Services Commission (SERCOM)

**Aviation Research and Development Project – Phase 2 (AvRDP2)
Scientific Steering Committee Second in-person meeting (Hybrid)**

Agenda

Date	26, 27 and 28 September 2023	Time	1430 – 2300 UTC 8:30 – 17:00 (local)
Reference	AvRDP-2		
Method	Hybrid (in person at UCAR, Foothills Campus, and online)		

Objective	To review progress on the science activities and plan how the real time trials in 2024 for the two airport pairs will work.
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Day 1 (26 September 2023, 1430-2300 UTC – 0830-1700 LT)				
<i>Video-teleconference link:</i>				
Join Zoom Meeting				
https://ucar-edu.zoom.us/j/96563388548				
Meeting ID: 965 6338 8548				
Passcode: Cq5RNuYE				

Note, the video-teleconference invitations the same for each day. Please log-in around 10 minutes prior to the start time.

No.	Topic	Timing (UTC)	Timing (LT)	Leads
1	Opening of the meeting			
1.1	Opening remarks	1430	0830	Chris
1.2	Self-introductions	1435	0835	All
1.3	Purpose of the meeting	1445	0845	Chris, Piers
2	Program updates, big picture items (EW4All), work of relevance outside AvRDP (e.g., discuss AI developments and other relevant projects)			
2.1	Wider picture items (EW4All, HWIS), work of relevance outside AvRDP2 HWIS (Stéphanie W) EW4All (Teichert Florian tbc) Critical common themes AI developments (Claire) Convectively induced turbulence (CIT) update (Xiaoming)	1500	0900	Chris, Piers. Stéphanie W.
	<i>Coffee break 30'</i>	1600	1000	
2.2	Critical common themes (cont.) Verification (Stephanie L tbc) R20 (Fanglin tbc) Convection diagnosis / forecasting (Michiko)	1630	1030	Committee members
	<i>Lunch break 90'</i>	1800	1200	
3	NCAR researcher presentations			

3.1	<p>NCAR researcher presentations.</p> <ol style="list-style-type: none"> 1. Ken Stone: Global Ensemble Prediction of Convective Hazards (EPOCH) in support of the WAFS. 2. Ken Stone: Global Convective Diagnostic Oceanic and Cloud Top Height products (CDO/CTH). 3. Bob Sharman and Wiebke Deierling: Turbulence forecasting including in-cloud turbulence 4. Wiebke Deierling: Observational estimates of turbulence inside convection and turbulence nowcasts 5. Hailey Shin: Probabilistic Forecasts of Upper-Level Aviation Turbulence 	1930	1330	Chris and NCAR colleagues
	<i>Coffee break 30'</i>	2110	1510	
3.2	<p>NCAR researcher presentations (continued).</p> <ol style="list-style-type: none"> 6. Stan Trier: WRF-model simulations of observed cases of widespread convectively induced aviation turbulence 7. Julie Haggerty: Detection of High Ice Water Content (HIWC) Conditions: Recent Developments at the National Center for Atmospheric Research 	2140	1540	Chris and colleagues
3.3	Discussion on relevance of the NCAR presentations to the AvRDP-2 project.	2220	1620	Chris and Piers
--	Close of day 1 and look ahead to day 2	2300	1700	Chris, Piers

Group Dinner: Roadhouse Boulder Depot
2366 Junction Pl, Boulder, CO 80301
6 PM

Day 2 (27 September 2023, 1430-2300 UTC – 0830-1700 LT)				
No.	Topic	Timing (UTC)	Timing (LT)	Leads
--	Recap of Day 1 and plan for Day 2	1430	0830	Chris, Piers
4	Deep dive into developments for LHR-JNB			
4.1	Discuss what has been done. For example, MSc Students at Reading work.	1500	0900	Piers, Claire, Morné, Stephanie L.
	<i>Coffee break 30'</i>	1600	1000	
4.2	Discuss what to do next Proposed real time product. Proposed user(s)	1630	1030	Piers, Claire, Morné, Stephanie L.
	<i>Lunch break 90'</i>	1800	1200	
5	Deep dive into developments for HKG-SIN			
5.1	Discuss what has been done Discuss probabilistic aspect of this work.	1930	1330	Ping, Danice, Michiko

	<i>Coffee break 30'</i>	2100	1500	
5.2	Discuss what to do next	2130	1530	Ping, Danice, Michiko
--	Close of day 2 and look ahead to day 3	2300	1700	Chris, Piers

Day 3 (28 September 2023, 1430-2100 UTC – 0830-1500 LT)

No.	Topic	Timing (UTC)	Timing (LT)	Leads
--	Recap of Day 2 and plan for Day 3	1430	0830	Chris, Piers
6	Way forward, priorities for pilots and demonstration, discussion of readiness, work plan for the next year			
6.1	Does the progress discussed Day 2 in the airport pairs science work meet the needs of customers? How might its use work in practice.	1500	0900	Piers, Chris, CAG (or CAG representative)
	<i>Coffee break 30'</i>	1600	1000	
6.2	Work plan for 2024. Is the trial ready to be implemented and if not what needs to be done before it is.	1630	1030	Ping, Piers, Chris
6.3	<i>Lunch break 90'</i>	1800	1200	
7	AOB	1930	1330	
8	Summary of actions	2000	1400	Piers, Chris, WMO Secretariat
9	Next meetings planning and closure of the meeting	2030	1430	Piers, Chris