

**Locations** [Google, 3rd Floor, 123 Buckingham Palace Road, London SW1W 9SH](#)

Google Meet joining info

Video call link: <https://meet.google.com/iqg-wrtf-zqa>

Or dial: (US) +1 928-962-1489 PIN: 147 147 872#

**Virtual** More phone numbers: <https://tel.meet/iqg-wrtf-zqa?pin=8607051199837>

**Agenda** All times BST / UTC+1

### Wednesday, June 19, 2024

Start	End	Research Presentations & Discussion
8:30	9:00	Arrival + breakfast
9:00	9:10	Goals, schedule, housekeeping
9:10	9:30	<b>Introduction:</b> Steven Barrett (UCambridge), Vincent Meijer (TUDelft)
9:30	10:30	<b>Presentations:</b> Observations of contrail formation
9:30	9:50	Phillippe Very (Eurocontrol): <i>The ContrailNet Portal: Stimulating Contrail Research by Sharing Data</i>
9:50	10:10	Olivier Liandrat (Reuniwatt): <i>Observation of clouds and contrails using sky imagers</i>
10:10	10:30	Aaron Sarna (Google): <i>Contrail Attribution in Geostationary Satellite Imagery</i>
10:30	10:45	<b>Break</b>
10:45	12:00	<b>Presentations:</b> Observations of contrail formation
10:45	11:05	Remi Chevallier (Airbus/ENAC): <i>A Simple and Cost-Effective Method for Contrails Ground Observation: Application in Concept of Operations Feasibility Studies</i>
11:05	11:25	Wouter Vandenneweker (MUAC): <i>Prototyping a Contrail Camera Network: From Concept to Reality</i>
11:25	11:45	Luc Busquin (Alaska Airlines): <i>Using Global Meteor Network Cameras for Contrail Observation</i>
11:45	12:00	Peter DeBock (ARPA-E), Miad Yazdani (RTX), Saikat Majumder (GE): <i>ARPA-E PRE-TRAILS (Predicting Real-time Emissions Technologies Reducing Aircraft Induced Lines in the Sky)</i>
12:00	13:00	<b>Lunch + Networking</b>
13:00	14:20	<b>Presentations:</b> Evaluating forecasts
13:00	13:20	Vincent Meijer (TUDelft): <i>Contrail forecast evaluation using satellite data</i>
13:20	13:40	Scott Geraedts (Google): <i>ContrailBench: datasets for forecast evaluation</i>
13:40	14:00	Greg Thompson, Adam Durant (Satavia): <i>On the fidelity of high-resolution numerical weather forecasts of contrail-favorable conditions</i>
14:00	14:20	Sebastian Eastham (Imperial): <i>Using LIDAR to analyze and evaluate contrail models</i>
14:20	14:40	<b>Break</b>

14:40	16:00	<b>Presentations:</b> Operational evaluation
14:40	15:00	Christiane Voigt (DLR): <i>New results on contrails, SAF and lean burn engine technology from recent aircraft campaigns</i>
15:00	15:20	Aarón Sonabend (Google), Tom Dean (BE): <i>Evaluating preliminary avoidance trials</i>
15:20	15:40	Louis Robion, Prashanth Prakash (MIT): <i>Leveraging contrail observations and measurements from flight campaigns</i>
15:40	16:00	Dennis Piontek, Kai Widmaier (DLR): <i>First results for the AKKL 100-flights-trial &amp; CONCERTO</i>
16:00	17:00	<b>Discussion:</b> Reflecting on Day 1's learnings
16:00	16:30	Breakout groups - small group discussion w. guided questions
16:30	16:50	Review and discuss breakout group findings
16:50	17:00	Wrap-up Day 1
17:00		End of Day 1
18:00		Informal happy-hour gathering at the <a href="#">Market Hall, Victoria</a> 191 Victoria St, SW1E 5NE

#### Thursday, June 20, 2024

Start	End	Research Presentations & Tutorials
8:30	9:00	Arrival + breakfast
9:00	10:20	<b>Presentations:</b> New forecast and planning approaches
9:00	9:20	Axel Seifert (DWD): <i>A two-moment cloud ice scheme in the ICON model for predicting ice supersaturation</i>
9:20	9:40	Zane Dedekind (Environment Canada): <i>Reducing the Impact of Aircraft Induced Clouds on Climate – Development of the Contrail Avoidance Tool (CoAT)</i>
9:40	10:00	Zeb Engberg (BE), Tharun Sankar (Google): <i>A hybrid contrail forecast model</i>
10:00	10:20	Alejandra Frias-Martin (Flightkeys): <i>Implementation of contrail avoidance in commercial flight planning</i>
10:20	11:00	<b>Break + Demos</b>
11:00	12:00	<b>Presentations:</b> Observations of Climate Forcing
11:00	11:20	Ollie Driver (Imperial): <i>Factors influencing contrail observability in satellite images</i>
11:20	11:40	Xinyue Wang (Climaviation): <i>Estimating the radiative effect of contrail outbreaks by using geostationary satellite observations</i>
11:40	12:00	Kevin McCloskey, Aarón Sonabend (Google): <i>12hr satellite-driven contrail flux via causal inference</i>
12:00	13:00	<b>Lunch + Networking</b>
13:00	14:00	<b>Lab 1a:</b> Scott Geraedts (Google): <i>Using ContrailBench</i>

14:00	15:00	<b>Lab 2a:</b> Nick Masson, Tom Dean (BE): <i>Contrails Observer app hackathon</i>
		<b>Lab 2b:</b> Seb Eastham (Imperial), Tristan Abbott (BE): <i>Getting set up with APCEMM</i>
15:00	16:00	<b>Lab 3a:</b> Nick Masson (BE), Shelagh McLellan (Google): <i>User stories: Designing products people love</i>
		<b>Lab 3b:</b> Zeb Engberg, Tristan Abbott (BE): <i>Finding flights in Landsat and Sentinel</i>
16:00	16:30	Co-working session
16:30	17:00	Wrap-up, feedback, how to stay in contact and contribute
17:00		End of Day 2

#### Friday, June 21, 2024

Start	End	Co-working session
8:30	9:00	Arrival
9:00	15:00	Co-working session
15:00		Wrap-up, feedback, how to stay in contact and contribute
		End of Workshop