

## Monday

09:00 - 09:30	Registration			
09:30 - 10:00	Welcome and opening remarks			
09:30	Manish Naja	Welcome by the ARIES Director	10	P
09:40	Nicholas, Mathias, Jim	Opening remarks by the three Chairs	10	
09:50	Isamu Morino and Mahesh Kumar Sha	Update of the India FTIR project	20	P
10:10	Shri A. S. Kiran Kumar Ji	Inauguration	10	P
10:20	Short Break, Group Photo			
10:35 - 11:00	Session 1 - India Project			
10:35	Dr. Mahesh Pathakoti	Retrieval of column GHGs from ground-based Remote Sensing FTIR and Validation of S5TROPOMI and OCO-2 products.	15	P
10:50	Dr Dhanyalekshmi Pillai (Talk)	Indian Methane Budget using satellite observations	15	P
11:05	Dr. Priyanka Srivastava	First cargo-ship based continuous trace gas measurements across Japan East Bay	10	P
11:15 - 11:30	Tea/Coffee/Photo			
11:30 - 13:30	Session 2 - Satellite Validation Support			
11:30	Angelika Dehn	ESA overview on Cal/Val and FRM activities addressing COCCON, TCCON, NDACC	20	P
11:50	Ruediger Lang	Status of CO2M product development and validation planning	25	R
12:15	Hirofumi Ohyama	Overview of GOSAT-GW TANSO-3 mission and validation plan	15	P
12:30	Denis Jougllet	MicroCarb status + Differential EM27/SUN measurements at top and bottom of Pic Du Midi	25	R
12:55	Mahesh Kumar Sha	EUMETSAT scientific service project for the support of CO2M validation, data provision and processing	20	P
13:15	Matthias Buschmann	A rapid delivery processing chain of TCCON and COCCON data in support of the CO2M mission	20	R
13:30 - 14:30	Lunch			
14:30 - 16:00	Session 3 - Joint TCCON/COCCON Session			
14:30	Thorsten/Nick	TCCON updates	15	P
14:45	Matthias Frey	The Collaborative Carbon Column Observing Network COCCON: Recent updates	15	P
15:00	Nicholas Deutscher	Methane Hunter	20	P
15:20	Dave Pollard	MethaneSAT Validation and Agricultural Emissions Activities in New Zealand	20	P
15:40	David Griffith	Fibre-optic coupled solar FTS update and operation at Kennaoook Cape Grim, Australia, a global clean air station	20	P
16:00 - 16:30	Tea/Coffee			
16:30 - 18:00	Session 4 - Joint TCCON/COCCON Session			
16:30	Thorsten Warneke	The Global Greenhouse Gas Watch	15	P
16:45	Nasrin Mostafavi Pak	Annual Growth Rates of CO2 on a Global Scale Inferred from Long-Term TCCON Observations	15	P
17:00	Justus Notholt	Continuation of the ESA project FRM4GHG	15	R
17:15	Arndt Meier	Next level data processing facility for CO2M validation (with life demo)	15	R
17:30	David Griffith	Assessment of TE_MCT detector for high resolution solar FTS	20	P
17:50	Debra Wunch	ETL TCCON Activities	10	R
18:00 - 19:00	Visit to Science Center (Optional)			
19:00 - 20:30	Conference Dinner			
20:30	Departure to Nainital			

The presentations can be uploaded to the link: <https://filesender.belnet.be/?s=upload&vid=2a917f7b-3d1f-4009-9d88-a7eb3ceecc59>

## Tuesday

### 09:30 - 11:00 Session 5 - TCCON and COCCON joint session

09:30	Josh Laughner	GGG2020.1 rollout and GGG2020.2 plans	25	R
09:55	Josh Laughner	Next steps for TCCON/EM27 GGG data and software: GGG2020.2, partial column products, and EGI-RS	25	R
10:20	Saswati Das	Evaluating Satellite-based XCO <sub>2</sub> Measurements from v11.2 OCO-2 and v11 OCO-3 Against Ground-based Measurements from TC	15	R
10:35	Erin McGee and Kim Strong	Progress establishing the future TCCON site at the Canadian High Arctic Research Station	20	R

### 11:00 - 11:30 Tea/Coffee

### 11:30 - 13:30 Session 6 - COCCON session - presentations

11:30	Frank Hase	Open path measurements using the EM27/SUN FTS	15	R
11:45	Eliezer Sepúlveda	COCCON-Spain: Toward an Integrated Greenhouse Gas Observation System in Spain	15	P
12:00	Lukas Grosch	Quantifying the Greenhouse Gas Emissions from the Steel Plant Bremen	25	P
12:25	Debra Wunch	The Toronto Atmospheric Monitoring of Emissions (TAME) Project	20	R
12:45	Gregor Stefan Surawicz	Technical discussions	20	P
13:05	Sreekanta Debnath	Bruker Optics News	20	P

### 13:30 - 14:30 Lunch

### 14:30 - 16:00 Session 7 - TCCON / COCCON / Posters

14:30	Masayoshi Minegishi	Profile of International Development Consulting Services of KKC	5	
14:35	All	Finish up discussions with Bruker, Research collaboration, Discussions about creating a legal entity for TCCON	50	
15:25	All Poster Presenters	1 -2 Minute Introduction to posters (~20). <b>Pre-recorded for remote presenters</b>	35	

### 16:00 - 16:30 Tea/Coffee

### 16:30 - 17:30 Session 8 - Posters

#### POSTERS

<i>Isamu Morino</i>	<i>Status of the Rikubetsu, Tsukuba, and Burgos TCCON sites 2025</i>	P
<i>Michel Grutter</i>	<i>Carbon measurements at a tropical forest with the Calakmul Atmospheric Observatory in Mexico</i>	R
<i>Jason St. Clair</i>	<i>Updates on the NASA GSFC EM27 network and TCCON site</i>	P
<i>Hirofumi Ohyama</i>	<i>Validation plan for Level 2 products of TANSO-3 onboard GOSAT-GW</i>	P
<i>Pascal Jeseck</i>	<i>Overview of TCCON/COCCON activities at Paris</i>	P
<i>Kei Shiomi</i>	<i>Saga, Japan site report 2025</i>	R
<i>Yao Té</i>	<i>Ten years of ground-based FTIR measurements at Paris</i>	P
<i>Martine De Mazière</i>	<i>Access to European Research Infrastructure services for enhancing atmospheric research</i>	P
<i>Isamu Morino</i>	<i>Status of COCCON sites in the Tokyo metropolitan area (Tsukuba, Yotsuya, Yokosuka, and Fuchu) 2025</i>	P
<i>Noemie Taquet</i>	<i>Volcanic volatile budgets from FTIR networks: La Palma 2021</i>	P
<i>Isao Murata</i>	<i>Some progresses in the retrieval of CH<sub>3</sub>D</i>	P
<i>Samuel Takele Kenea</i>	<i>CH<sub>4</sub> emissions estimates and sensitivity analysis using STILT-Inversion over South Korea (2010-2021)</i>	R
<i>Irene Pardo Cantos</i>	<i>Testing the HFC-134a Retrieval Strategy at other NDACC stations</i>	R
<i>Prithviraj Mali</i>	<i>Latitude dependency of stratospheric NO<sub>x</sub> daytime increase investigated by a multi-station solar FTIR study</i>	P
<i>Wolfgang Stremme</i>	<i>FTIR Measurements of trace gases related to biomass burning in Central Mexico</i>	P
<i>Petra Duff</i>	<i>Urban Air Pollution Monitoring in Downtown Toronto Using OP-FTIR Spectroscopy</i>	P

### 17:30 Departure to ST Radar

### 18:00 - 19:00 ST Radar Visit

### 19:00 Departure to Nainital

## Wednesday

### 09:30 - 11:00 Session 9 - NDACC-IRWG site report (6 talks)

09:30 04:00 UTC

9:30	Jim Hannigan	Report from the NDACC Steering Committee	0:30	P
10:00	Kimberly Strong	Site Reports for Toronto and Eureka	0:15	R
10:15	Ivan Ortega	Evaluating TEMPO formaldehyde retrievals with co-located ground-based FTIR and pandora Observations	0:20	R
10:35	Hideaki Nakajima	The first retrieval of HFC-125 by ground-based FTIR in Tsukuba, Japan	0:20	P

11:00 - 11:30 Tea/Coffee

### 11:30 - 13:30 Session 10 - NDACC-IRWG

11:30 06:00 UTC

11:30	Joseph Hung	Extending the utility of high-latitude IR-emission measurements towards monitoring cloud radiative properties	0:20	P
11:50	Johan Mellqvist	30 years measurements at Harestua, Norway- Updated time series	0:20	P
12:10	Mukesh Kumar	First Observations using Pandora Spectrometer in the Central Himalaya	0:20	R
12:30	Jim Hannigan	NCAR Site Report, Thule, Mauna Loa, Boulder	0:15	P
12:45	Tomoo Nagahama	Site report and recent status in Rikubetsu	0:10	P
12:55	Omaira Garcia	NDACC/TCCON/COCCON Izana site report	0:10	P
13:05	Isao Murata	NDACC Tsukuba site report	0:10	P
13:15	Bavo Langerock	CAMS27 project update	0:15	P

13:30 - 14:30 Lunch

### 14:30 - 16:00 Session 11 - NDACC-IRWG

14:30 09:00UTC

14:30	Matthias Frey	NDACC Kiruna station site report	0:10	P
14:40	Maresh Kumar Sha	Site report of the BIRA-IASB NDACC sites	0:10	P
14:50	Prithviraj Mali	Zugspitze and Garmisch site report	0:10	P
15:00	Yao Té	NDACC-Paris site report	0:10	P
15:10	Johan Mellqvist	Site report Onsala observatory, Sweden	0:15	P
15:25	Johan Mellqvist	Harestua site report	0:10	P
15:35	Wolfgang Stremme	Altzomoni Site report 2025	0:10	P
15:45	Christof Petri	TCCON and NDACC site report for Bremen sites	0:10	R

16:00 - 16:30 Tea/Coffee

### 16:30 - 18:00 Session 12 - NDACC-IRWG

16:30	Emmanuel Mahieu	Update on Jungfraujoch Revitalization	0:15	
16:45	Jim , Manu	Update on IRWG 2023	0:20	P
17:05	Jim , Manu	IRWG & Meeting Wrap Up: Any other Business, Bruker, Research collaboration, Implications of changing funding environment	0:20	P
17:25	Posters			

18:00 - 19:00 Visit the 40-inch telescope, Atmospheric Laboratory and Science Centre

19:00 - 20:30 Conference Dinner

20:30 Departure to Nainital

## Thursday

09:30 - 11:00 Session 13 - Remote Sensing Tutorial 1 TBD

11:00 - 11:30 Tea/Coffee

11:30 - 13:30 Session 14 - Remote Sensing Tutorial 2 TBD

13:30 - 14:30 Lunch

14:30 - 16:00 Session 15 - Remote Sensing Tutorial 3 TBD

16:00 - 16:30 Tea/Coffee

16:30 - 18:00 Session 16 - Remote Sensing Tutorial 4 TBD

18:00 - 19:00 Visit the ST Radar and Radiosonde launch (if possible)

## Friday

08:30 - 11:00 Travel to Devasthal Campus & Observatory Visit