



Time	Day 1: Monday, 05 February 2018	Presenter
08:15 - 09:00	<b>WORKSHOP REGISTRATION</b>	
09:00 - 09:05	Workshop logistics	T. Fehr, ESA
09:05 - 09:15	Welcome/intro	K. McMullan, ESA
09:15 - 11:40	<b>S5P Commissioning Status and First Results overview</b> Chair: B. Simpson, ESA	
09:15 - 09:45	Mission Overview - Commissioning Phase - PDGS status	H. Nett, ESA
09:45 - 09:55	Implementation of L1 and L2 algorithm chains	H. Nett, ESA
09:55 - 10:15	TROPOMI calibration and L1 status	Q. Kleipool, KNMI
10:15 - 10:45	<b>Coffee Break</b>	
10:45 - 11:20	First results Overview	P. Veekind, KNMI D. Loyola, DLR J. Landgraf, SRON
11:20 - 11:40	<b>DISCUSSION/QUESTIONS &amp; ANSWERS</b>	All
11:40 - 13:00	<b>ESA CalVal activities - Data Release</b> Chair: C. Zehner, ESA	
11:40 - 11:50	ESA Phase E2 Cal/Val Planning	A. Dehn, ESA
11:50 - 12:00	MPC Routine calibration - ICAL	A. Ludewig, KNMI
12:00 - 12:10	MPC Routine validation - VDAF	J.C. Lambert, BIRA-IASB
12:10 - 12:20	FRM4DOAS	F. Hendrick, BIRA-IASB
12:20 - 12:30	Pandonia FRM	M. Tiefengraber, Luftblick
12:30 - 12:40	FRM4GHG	J. Notholt, IUP Bremen
12:40 - 12:50	TROPOMI data release + Phase E2 data access	C. Zehner, ESA
12:50 - 13:00	<b>DISCUSSION/QUESTIONS &amp; ANSWERS</b>	All
13:00 - 14:00	<b>Lunch Break</b>	
14:00 - 16:40	<b>1st AO Proposals Block</b> Chairs: D. Loyola, DLR/ I. Aben, SRON	
	<b>Level 1 Projects</b>	
14:00 - 14:10	Tropomi-SWIR in-flight calibration: Early results and outlook on monitoring program	T. van Kempen, KNMI
14:10 - 14:17	<b>28612:</b> Validation and intercomparison of TropOMI sun-normalized radiances	G. Jaross, NASA-GSFC
14:17 - 14:24	<b>28617:</b> S5P Earth reflectance validation experiment (SERVE)	P. Wang, KNMI
	<b>Cloud Projects</b>	
14:24 - 14:31	<b>28659:</b> Earlinet and Cloudnet - Aerosol and Cloud Team for Sentinel-5 Precursor Validation (EC-ACTS)	D. Balis, Uni. Thessaloniki
	<b>Baseline Products UVN Projects</b>	
14:31 - 14:38	<b>28329:</b> Participation in S5PVT to validate SO2 and HCHO Products	N. Krotkov, NASA-GSFC
14:38 - 14:45	<b>28536:</b> Validation of TROPOMI using Environment Canada Ground-Based Remote Sensing Network	V. Fioletov, Env. Canada
14:45 - 14:52	<b>28568:</b> Validation of total ozone from S5P TROPOMI on the global scale using Brewer, Dobson and UV-visible/SAOZ networks - (VALTOZ)	D. Balis, Uni. Thessaloniki
14:52 - 14:59	<b>28581:</b> Investigation of the effect of horizontal gradients of trace gases, aerosols and clouds on the validation of tropospheric TROPOMI products (TROPGRAD)	J. Remmers, MPIC
14:59 - 15:06	<b>28587:</b> Validation of Copernicus HEight-resolved Ozone data Products from Sentinel-5P TROPOMI using global sonde and lidar networks (CHEOPS-5p )	J.-C. Lambert, BIRA
15:06 - 15:13	<b>28595:</b> Airborne and Lidar Validation of Sentinel-5 Precursor in the Arctic (ALIVO S5P Arctic)	K. Blix, Andoya Space Center
15:13 - 15:20	<b>28596:</b> Sentinel-5p/TROPOMI L2 products validation using the Cabauw Experimental Site for Atmospheric Research CESAR	D. Stein-Zweers, KNMI
15:20 - 15:27	<b>28607:</b> S5P Nitrogen Dioxide and FORmaldehyde Validation using NDACC and complementary FTIR and UV-Vis DOAS ground-based remote sensing data (NIDFORVal.)	G. Pinaridi, BIRA
15:27 - 15:34	<b>28608:</b> Validation/verification of S5P/TROPOMI ozone data products (S5POZVAL)	K-U. Eichmann, IUP Bremen
15:34 - 15:41	<b>28622:</b> GLORIA for Sentinel-5P Validation (GASVal)	M. Kaufmann, F. Juelich
15:41 - 15:48	<b>28651:</b> Validation and Verification of S5P NO2 using ground-based, airborne and satellite data (VVSSP)	A. Richter, IUP Bremen
15:48 - 15:55	<b>28695:</b> TROPOMI L2 Validation in the U.S. mid-Atlantic Region	B. Lefer, NASA
15:55 - 16:02	<b>35593:</b> Characterization of TROPOMI level 1B and 2 data set using GEMS algorithm	M. Kang, Ewha Womans Uni.
16:02 - 16:09	<b>38300:</b> Validation of Trace Gas and Aerosol Products of TROPOMI/S5P over Eastern China	D. Loyola, DLR
16:09 - 16:16	<b>28505:</b> TEMPO Team Participation in S5P Validation	G. Gonzalez, Harvard-Smithonians
16:16 - 16:23	<b>40202:</b> Participation in S5PVT to assess TROPOMI NO2 products using NASA data	N. Krotkov, NASA-GSFC
16:23 - 16:40	<b>DISCUSSION</b>	All
16:40 - 18:00	<b>Poster session &amp; Demos of EVDC, BEAT, VEEDAM (with coffee)</b>	
18:00 - 19:30	<b>Icebreaker</b>	

## 2nd S5PVT Meeting and First Results Workshop

Time	Day 2: Tuesday, 06 February 2018	Presenter
<b>09:00 - 10:40</b>	<b>2nd AO Proposal Block</b> Chairs: M. Van Roozendael, BIRA-IASB/ P. Veeckind KNMI	
	<b>Baseline SWIR Products</b>	
09:00 - 09:07	<b>28579:</b> Methane and CO validation and verification for S5P (MECOVAL-S5P)	H. Bovensmann, IUP Bremen
09:07 - 09:14	<b>28603:</b> Validation of S5P Methane and Carbon Monoxide with TCCON Data (TCCON4S5P)	M. Kumar Sha, BIRA
09:14 - 09:26	<b>28630:</b> Validation of the S5P CO and CH4 total column product	J. Landgraf, SRON
09:26 - 09:33	<b>28632:</b> Sentinel 5P validation by Comet Halo (SNITCH)	A. Fix, DLR
09:33 - 09:40	<b>28675:</b> AirCore vertical profile measurements for validation of the S5P CO and CH4 products (AirCoreS5P)	I. Aben, SRON
09:40 - 09:47	<b>28701:</b> Algorithm verification using Bayesian tools ALGOBAT (ALGOBAT)	J. Tamminen, FMI
	<b>28673:</b> Impact of Molecular Absorption Spectroscopy Data on S5P Infrared Carbon Gas Concentration Retrievals — MADSICC	P. Hochstaffl
	<b>Multi-Focus Projects</b>	
09:47 - 09:54	<b>28580:</b> Modelling and Assimilation for the Validation of TROPOMI Chemical Observations (MATRICS)	S. Trisseggen, BIRA
09:54 - 10:01	<b>28618:</b> High latitudes validation for TROPOMI/S5P (HIGHVAL)	I. Ialongo, FMI
10:01 - 10:08	<b>28627:</b> Validation of nitrogen dioxide and Arctic methane from Sentinel-5P	P. Schneider, NILU
10:08 - 10:15	<b>28691:</b> United Kingdom Collaborative S5P Validation Team (UKCVTS5P)	N. Humpage, Univ. Leicester
10:15 - 10:22	<b>39959:</b> S5P validation from Chinese multiply observation platform network: MAX-DOAS, LIDAR, FTIR and satellite	L. Cheng, University of Science and Technology
10:22 - 10:29	<b>40030:</b> NASA 2018-2019 Airborne Tropospheric Composition Campaigns Contributing to S5P Validation CSA	J. Al-Saadi, NASA C. Zehner
10:40 - 11:00	ECMWF CAMS data assimilation system	A. Inness, ECMWF
<b>10:29 - 10:40</b>	<b>DISCUSSION</b>	All
<b>11:00 - 11:30</b>	<b>Coffee Break</b>	
<b>11:30 - 12:25</b>	<b>Data and Tool Rehearsal - (EVDC, Overpass Tool)</b> Chair: A. Dehn, ESA	
11:30 - 11:40	ESTEC Overpass Tool presentation	M. Pinol, ESA
11:40 - 11:55	EVDC overview presentation	A. Fjaeraa, NILU
<b>11:55 - 12:25</b>	<b>Rehearsal feedback - DISCUSSION</b>	AO PIs/ All
12:25 - 13:00	Validation campaign needs and requirements	M. Van Roozendael, BIRA
<b>13:00 - 14:00</b>	<b>Lunch Break</b>	
<b>14:00 - 15:00</b>	<b>extended lunch break --&gt; Poster session &amp; Demos of EVDC, BEAT, VEEDAM (with coffee)</b>	All
<b>15:00 - 17:00</b>	<b>Workshop Conclusion and Outlook</b> Chair: T. Fehr, ESA	
	<b>DISCUSSION/QUESTIONS &amp; ANSWERS</b>	All
	Preparation of upcoming QWG meetings	C. Zehner, ESA

Posters	Presenter
<b>All AO Proposals will have a dedicated poster panel</b>	<b>AO PIs</b>
MULTIPLY: Progress in the development of a European HSRL airborne facility	L. Belegante, INOE
RAMOS (Romanian Atmospheric Observation System): Preparatory phase and preliminary results	A. Dandocsi, INOE
Ground-based measurements of greenhouse gas column abundances using the portable EM27/SUN FTIR spectrometer: the Virtual Exploitation Environment Demonstration for Atmospheric Missions	F. Hase, KIT
Mission status of Geostationary Environment Monitoring Spectrometer (GEMS)	C. Rendl, SISTEMA
German contribution to Sentinel-5P-Validation with ground-based FTIR measurements (S5P-FTIR)	A. Cho, NIER
The EOP-GMQ contribution to S5P Validation: the "IDEAS+" Boundary-layer Air Quality-analysis Using Network of	T. Blumenstock, KIT
Validation effort from field campaign in China - Introduction of the STEAM Project	S. Casadio, Serco
TICOSOUNDING" TURRIALBA - Balloonsonde Profiling in Costa Rica for Validation of OMI, OMPS and Sentinel 5 Precursor SO2 Retrievals	C. Zhonan, Chinese Academy of Sciences
Ground-based remote-sensing of CO2, CO, and CH4 using compact solar-viewing spectrometers	H. Selkirk, Universities Space Research Association
The potential for a multi-instrument validation of TROPOMI products at Thessaloniki, Greece	J. Franklin, Harvard Uni.
The South American atmosphere : multi-year simulations using the MAGRITTE regional model and comparisons to satellite	K. Garane, Aristotle University of Thessaloniki
ESA Project "Automation of TCCON Data Analysis"	M. Bauwens, BIRA
Validation of S5P-TROPOMI volcanic SO2 products by ground-based NOVAC	R. Sussmann, KIT
Airborne imaging DOAS measurements of NO2 and SO2 with the AirMAP instrument – A review of the AROMAT campaign	S. Arellano, Chalmers University of Technology
CH4 and CO validation in Tropical Africa using a portable FTS	A. Maier, IUP Bremen
18 Years of MOPITT carbon monoxide observations from space: Validation and Algorithm Improvements	N. Humpage, U. Leicester
Using airborne remote sensing observations of XCH4 to validate the S5P XCH4 Level 2 product - challenges and	H. Worden, NCAR
Overview of the AROMAT and AROMAPEX campaigns	H. Bovensmann, IUP Bremen
	A. Merlot, BIRA