

Atmospheric Training Course (ATC14) – 27-31 October 2014

Programme

Monday	09:00-10:00 Registration/Poster Mounting 10:00-10:30 Welcome - MR 10:30-11:00 SEOM/ATC14 -YLD 11:00-11:30 Coffee Break 11.30-12:30 Earth's Atmosphere – MR 12:30-13:00 ESA Atmospheric Missions/Data Access – CZ 13.00-14:00 Lunch Break 14:00-15:00 IR Nadir/Limb Viewing Instruments/Data (IASI, MIPAS) - JO 15:00-16:00 UV/VIS Nadir Viewing Instruments/Data (GOME, OMI) - MvR 16:00-16:30 Coffee Break 16.30-18:00 Practical on Data Handling/BEAT Toolbox – SN 18:00 Icebreaker
Tuesday	09:00-10:00 Spectroscopy/Atmospheric Reference Data - JO 10.00–11:00 UV/VIS Nadir Retrieval - MvR 11:00-11:30 Coffee Break 11.30 -13:00 Practical on Retrieval (DOAS) – MvR 13:00-14:00 Lunch Break 14.00–15:00 Ground-based Networks/Data Standards - OT 15:00-16:00 Validation Methods - JCL 16:00-16:30 Coffee Break 16.30 -18:00 Practical on Validation – JCL
Wednesday	09:00-10:00 Cloud Retrieval from satellite measurements: Why and How? - CP 10:00-11:00 Aerosol Retrieval from satellite measurements: Why and How? - GdL 11:00-11:30 Coffee Break 11:30-12:30 GHG Retrieval from satellite measurements: Why and How? - MB 12:30-13:00 Principles of Inversion Techniques - TK 13:00-14:00 Lunch Break 14:00-14:30 Inversion of CO ₂ - TK 14:30-15:00 Ozone Recovery? - MvR 15:00-15:30 Key findings from 10 years of CO ₂ and CH ₄ satellite observations - MB 15:30-16:00 Regional trends of aerosol over Europe and Sahara - GdL 16:00-16:30 Clouds: Impact on Climate – CP 17:00 Social Event

Thursday	09:00-10:00	Chemistry-Climate Modelling - PB
	10:00-11:00	Modelling in the Troposphere – MS
	11:00-11:30	Coffee Break
	11.30-13:00	Practical on Modelling (Stratosphere) – PB
	13:00-14:00	Lunch Break
	14:00-15:00	Global Data Assimilation - VHP
	15.00-16:00	Regional Data Assimilation - HE
	16.00-16:30	Coffee Break
Friday	16.30-18:00	Practical on Data Assimilation - HE
	09:00-10:00	Atmospheric Composition/Climate – MR (with contributions from MB)
	10:00-10:30	Brewer-Dobson Circulation – PB
	10:30-11:00	Gravity Waves – PP
	11:00-11:30	Air Quality/MACC Project – VHP
	11:30-12:00	Coffee Break
	12:00-13:00	Closing

Lecturers

MR	-	M. Riese	
HE	-	H. Elbern	
MS	-	M. Schultz	- <i>Forschungs Zentrum Juelich</i>
PP	-	P. Preusse	

JO	-	J. Orphal	
PB	-	P. Braesicke	- <i>Karlsruhe Institute of Technology</i>

MvR	-	M. van Roozendaal	
JCL	-	J-C. Lambert	- <i>Belgian Institute for Space Aeronomy</i>

MB	-	M. Buchwitz	- <i>University Bremen</i>
-----------	---	-------------	----------------------------

GdL	-	G. de Leeuw	- <i>Finnish Meteorological Institute</i>
------------	---	-------------	---

OT	-	O. Tarasova	- <i>World Meteorological Organization</i>
-----------	---	-------------	--

VHP	-	V-H. Peuch	- <i>European Centre for Medium-Range Weather Forecasts</i>
------------	---	------------	---

CP	-	C. Poulsen	- <i>Rutherford Appleton Laboratory</i>
-----------	---	------------	---

TK	-	T. Kaminski	- <i>FastOpt</i>
-----------	---	-------------	------------------

SN	-	S. Niemeijer	- <i>S&T</i>
-----------	---	--------------	------------------

YLD	-	Y-L Desnos	
CZ	-	C. Zehner	- <i>ESA</i>

SEOM	-		- <i>Scientific Exploitation of Operational Missions</i>
-------------	---	--	--
