

Observing the Earth System: New measurements and progress in understanding

IUP-AWI Blockseminar February 4, 2019

University of Bremen, NW1, room S1360

09:30 – 09:50	M. Buchwitz	Atmospheric CO ₂ from satellites for Copernicus including status of future CO ₂ Monitoring (CO2M) mission
09:50 – 10:10	M. Reuter	Emissions from CO ₂ hotspots: Analysis of OCO-2 XCO ₂ and Sentinel-5-Precursor NO ₂ data products
10:10 – 10:30	L. Andres Hernandez	Investigation of the effect of megacities in the atmospheric composition: the EMeRGe project
10:30 – 10:50	H. Fischer	Observations of atmospheric artificial radioisotopes over Europe in 2017 - transport, deposition, detection and possible origins
Coffee Break		
11:10 – 11:30	O. Schneising	Californian fires CO emissions observed by Sentinel-5-Precursor
11:30 - 11:50	N. Daskalakis	Impact of biomass burning in the tropical and subtropical Pacific Ocean
11:50 – 12:10	K.-U. Eichmann	Sentinel-5P TROPOMI Tropical Upper Tropospheric Ozone Volume Mixing Ratios using the Cloud Slicing Technique
12:10 – 12:30	T. Kuechler	Water vapour retrieval from Sentinel-5p
Lunch Break		
13:30 – 13:50	N. Sukhikh	Diapycnal Mixing in the Upper Ocean Part of the Subpolar North Atlantic Based on Vessel-Mounted ADCPs Data
13:50 – 14:10	J. Oelker	Underwater light attenuation derived from vibrational Raman scattering detected in hyperspectral satellite spectra
14:10 – 14:30	V. Ludwig	A new 1km resolution sea ice concentration product of merged thermal infrared and passive microwave satellite observations
14:30 – 14:50	D. Murashkin	Sea ice leads in the Arctic Ocean observed by the Sentinel-1 Synthetic Aperture Radar satellite
14:50 – 15:10	F. Kauker (AWI)	Arctic Mission Benefit Analysis: Impact of Sea Ice Thickness and Freeboard Products on Forecast Performance
Coffee break		
15:30 – 15:50	S. Seo	Arctic BrO from Sentinel-5p
15:50 – 16:10	M. Buschmann	Atmospheric H ₂ O and HDO measurements from ground-based solar absorption spectra in the Arctic
16:10 – 16:30	C. Arosio	Ozone trends in the stratosphere: merging satellite data sets to study long-term changes
16:30 – 16:50	E. Galytska	Ozone decline in the tropical middle stratosphere observed by SCIAMACHY and its relation to the stratospheric dynamics
16:50 – 17:10	N. Mettig	Ozone Profile Retrieval Verification for Sentinel-5 UVN and OMI