

Workshop: Assimilation of Hyper-spectral Geostationary Satellite Observations



22 – 25 May 2017

Programme

Monday 22 May

13:30-14:00	Registration	
14:00-14:10	Welcome to ECMWF	Peter Bauer (ECMWF)
14:10-14:40	Science applications and product plans for MTG-IRS	Bojan Bojkov (EUMETSAT)
14:50-15:20	Brief introduction of the hyper-spectral infrared sounder from FY-4A and FY-3D	Qifeng Lu (NSMC/CMA China)
15.30-15:45	<i>Coffee break</i>	
15:45-16:15	Spectral and radiometric characteristics of MTG-IRS	Dorothee Coppens (EUMETSAT)
16:25-16:55	Radiative transfer modelling for MTG-IRS	James Hocking (UK Met Office)
17:05-17:35	Potential for MTG-IRS to impact the forecasting of severe precipitation cases	David Lavers (ECMWF)
17:45	<i>Drinks Reception</i>	

Tuesday 23 May

09:15-09:45	Possibilities for handling SRF variation in the MTG-IRS detector array	Nigel Atkinson (UK Met Office)
10:00-10:30	Validation of MTG observed spectra by comparison to LEO hyperspectral sounders	Dave Tobin (SSEC University of Wisconsin)
10:45-11:00	<i>Coffee break</i>	
11:00-11:30	Assimilation issues for the exploitation of humidity sensitive radiance observations from GEO satellites	Elias Holm (ECMWF)
11:40-12:10	The impact of hyperspectral infrared radiance observations on NWP forecasts	Andrew Collard (NOAA/EMC)
12:20-12:50	Atmospheric Motion Vector generation from MTG-IRS	Régis Borde (EUMETSAT)
13:00-14:00	<i>Lunch break</i>	
14:15-14:45	PCA assimilation techniques applied to MTG-IRS	Marco Matricardi (ECMWF)
15:00-15:30	Assimilation of transformed retrievals applied to MTG-IRS	Stefano Migliorini (UK Met Office)

15:30-15:45	<i>Coffee break</i>	
16:00-16:30	Detecting cloud contamination in MTG-IRS observed spectra	Jérôme Vidot (Météo-France/CMS)
16:45-17:15	Exploiting cloud affected hyperspectral GEO radiances	Alan Geer (ECMWF)
Wednesday 24 May		
09:30-10:00	Hyperspectral GEO observations of the land surface	Isabel Franco Trigo (IPMA, Land-SAF)
10:10-10:40	Assimilation of simulated IRS data in a convective scale model	Nadia Fourrié (Météo-France)
10:50-11:05	<i>Coffee break</i>	
11:05-11:35	Aerosol detection/estimation with hyperspectral thermal infrared satellite measurements	Sophie Vandebussche (Royal Belgian Institute for Space Aeronomy)
11:45-12:15	The potential impact of ozone sensitive data from MTG-IRS	Rossana Dragani (ECMWF)
12:25-13:00	Formation of Working Groups – issues to consider	
13:00-14:00	<i>Lunch break</i>	
14:00-17:30	Working group meetings	
18:00	<i>Pre-dinner drinks</i>	
18:30	<i>Workshop dinner</i>	
Thursday 25 May		
09:30-13:00	Working group meetings	
13:00-14:00	<i>Lunch break</i>	
14:00-15:00	Plenary session – summarise recommendations	
15:00	Close of the workshop	

Working group meeting breaks will be on the Concourse at the following times

Wednesday 24 May: 15:15

Thursday 25 May: 10:45