TRAINING COURSE

EUMETSAT/ECMWF NWP-SAF Satellite data assimilation 19–23 March 2018

	Monday 19 March	Tuesday 20 March	Wednesday 21 March	Thursday 22 March	Friday 23 March
09:30-10:45	Welcome, course overview and meet the students ***10:30 Computer Hall tour***	The infrared spectrum – measurement, modelling and information content **Tony McNally**	GPS Radio Occulation: Extended applications **Sean Healy**	Satellites for environmental monitoring and forecasting **Richard Engelen**	Bias Correction Methods for Satellite data **Niels Bormann**
10:45-11:15			***Coffee break***		
11:15-12:30	Theoretical background (1) What do satellites measure? **Tony McNally**	GPS Radio Occulation: Principles and NWP use **Chris Burrows**	The detection and assimilation of clouds in infrared radiances **Tony McNally**	Background errors for satellite data assimilation **Tony McNally**	Satellite information on the ocean surface (SCAT) **Giovanna De Chiara**
12:30-13:00			***Comfort break***		
13:00-14:00			***Lunch break***		
14:00-15:15	Theoretical background (2) Data assimilation algorithms, key elements and inputs **Tony McNally**	Satellite information on the land surface **Patricia de Rosnay**	The detection and assimilation of clouds and rain in microwave radiances **Alan Geer**	Observation errors for satellite data assimilation **Niels Bormann**	Current satellite observing network and its future evolution **Stephen English**
15:15-15:45			***Coffee break***		
15:45-17:00	The microwave spectrum – measurement, modelling and information content **Alan Geer** ***17:30 Ice breaker***	A ***practical*** guide to IR and MW radiative transfer – using the RTTOV model and GUI **David Rundle (UK Met Office)**	Wind information from satellites (Atmospheric Motion Vectors) **Katie Lean**	1D-Var theory, simulator and ***practical*** session on background and observation errors **Tony McNally**	Question and answer session**,** **c**ourse evaluation ***Close***
17:00-17:30		Practical extension period	Practical extension period	Practical extension period	