Agenda Summer School 2018

Monday, 11 June

am Welcome Introduction of students and teachers plus discussion of agenda (All)

Opening Quiz ALL

Lecture Electromagnetic spectrum and radiative transfer – **Bennartz**Lab Introduction to McIDAS-V (case from 6 November 2005)

pm Lecture Satellites, instruments and orbits – Bennartz, Kerkmann

Lab Smoke in Botswana (29 August 2008)

Lab Discussion of results

Tuesday, 12 June

am Lecture RGB Products overview – **Kerkmann**

Lab Wildfires in South Africa (1 September 2008)

Lab Discussion of results

pm ALL Daily Weather Briefing

Lecture Infrared soundings (multi-spectral and hyperspectral) – **Bennartz**

Lab Investigate a tropical depression with AIRS

Lab Discussion of results

Wednesday, 13 June

am Lecture Microwave soundings – Bennartz

Lab Investigate a tropical depression with MODIS

and AMSR in addition to AIRS

Lab Discussion of results

pm ALL Daily Weather Briefing

Lecture Aerosols 1 (dust, smoke) – **Kerkmann**

Lab Dust / Smoke discrimination (22 October 2007)

Lab Discussion of results

Thursday, 14 June

am Lecture Aerosols 2 (ash and SO2) – **Kerkmann**

Lab a) Thin ash and ice clouds (15 April 2010)

b) Volcanic Ash and SO2 clouds (6 June 2011)

Lab Discussion of results

pm ALL Daily Weather Briefing

Lecture Looking at clouds (cloud properties, VIS and NIR) – Bennartz

Lab Deep convection over Burkina Faso (5 April 2007)

Lab Discussion of results

Friday, 15 June

am Lecture Looking at clouds and precipitation – Bennartz

Lab Precipitation case with microwave channels from AMSR-E and

an overpass by CloudSat

Lab Discussion of results

pm ALL Daily Weather Briefing (for weekend)

Lecture Climate applications, inter-calibration, long-term stability – **Bennartz**

Lab Looking at Arctic sea ice extent with AMSR-E

Lab Discussion of results

Weekend, 16 – 17 June (possible private visit to Rome)

Monday,18 June

am Lecture How to order data (from EUMETSAT, NOAA etc.) - Gencic

Lab Student Lab (with downloading of data)

Lab Discussion of results

pm All Daily Weather Briefing

Lecture Cloud microphysics & Day/Night Microphysics - **Kerkmann**

RGB products

Lab Exploring different cloud scenes (3 cases)

Lab Discussion of results

Tuesday, 19 June

am Lecture Latest RGB Developments (tuning, new RGBs) – Kerkmann

Lab Looking at low clouds (13 July 2014)

Lab Discussion of results

pm ALL Daily Weather Briefing

Lecture Low-level humidity seen in (VIS and) IR channels - **Kerkmann**Lab Moisture boundary cases (16 October 2014, 14 July 2006)

Lab Discussion of results

Wednesday, 20 June

am Lecture Products of the Hydrology SAF – Melfi

Final Quiz ALL Course Evaluation ALL

Summary & Concluding Ceremony (end at 12.30 h)

AM sessions: 9:00 am – 12:30 pm PM sessions: 2:00 pm – 5:30 pm