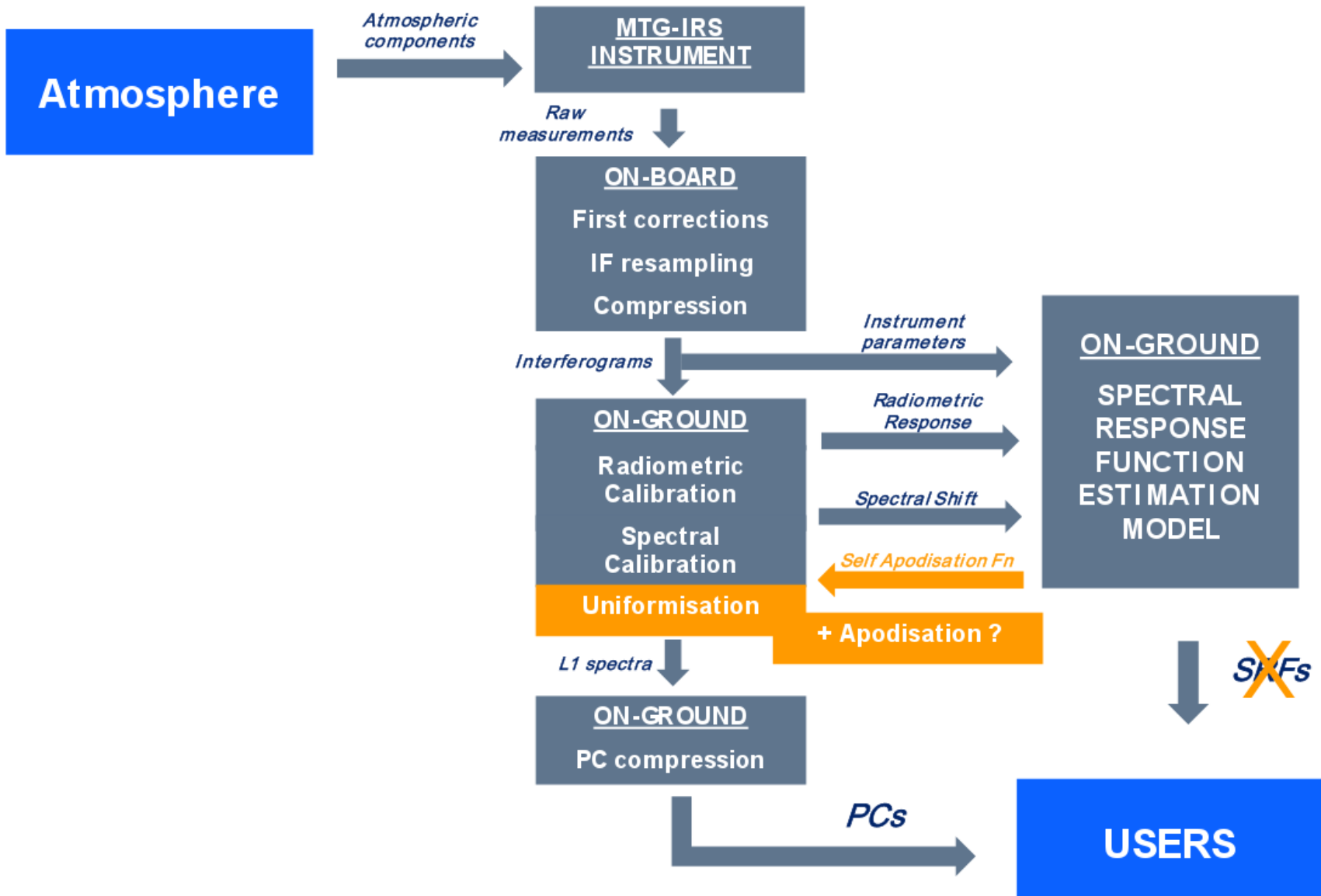


Using the ECMWF 1.25/2.5 Km model to support MTG-IRS Level-1 processing

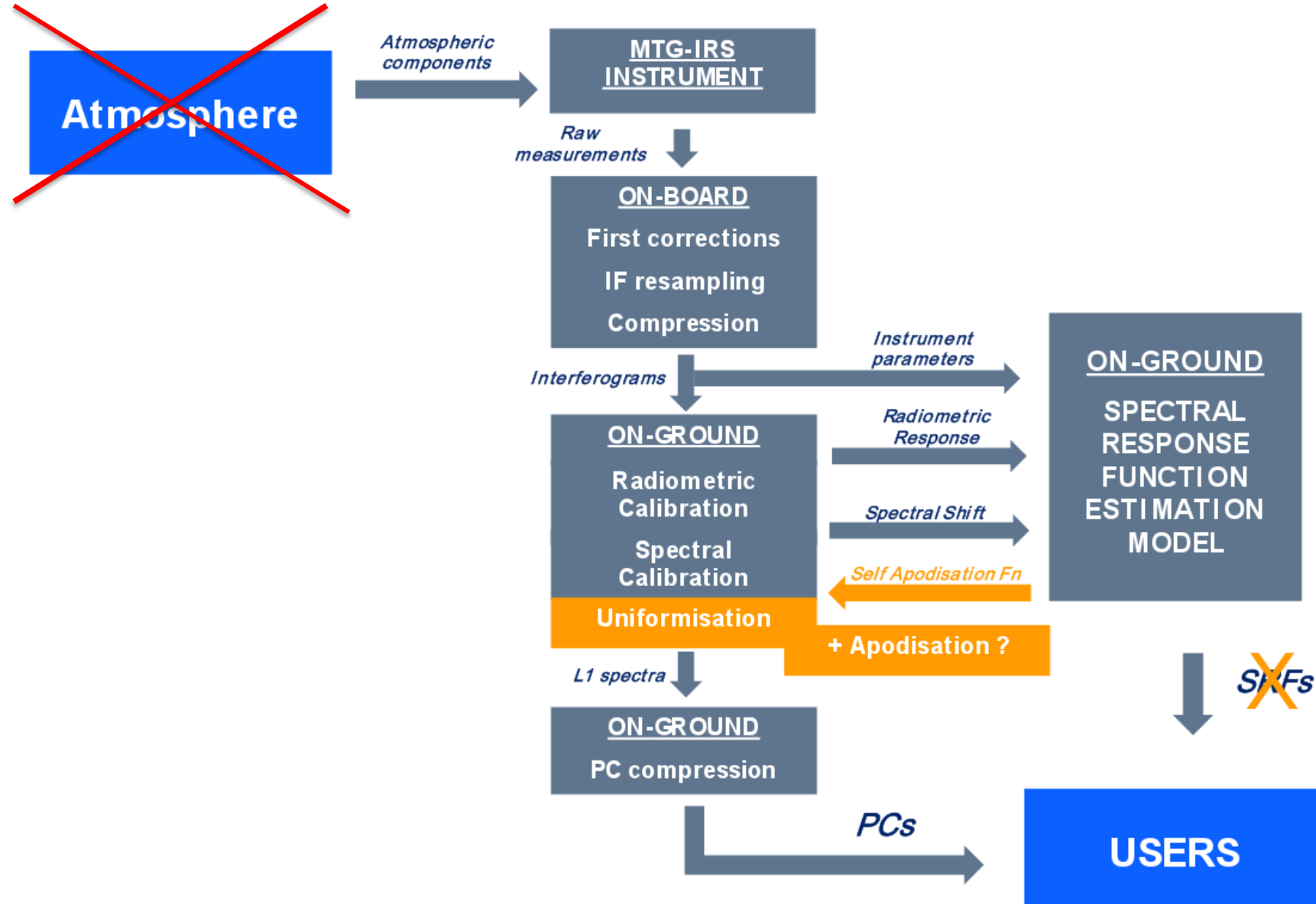
Marco Matricardi, Kirsti Salonen and Cristina Lupu

Marco.Matricardi@ecmwf.int

MTG-IRS Level-1 processor....



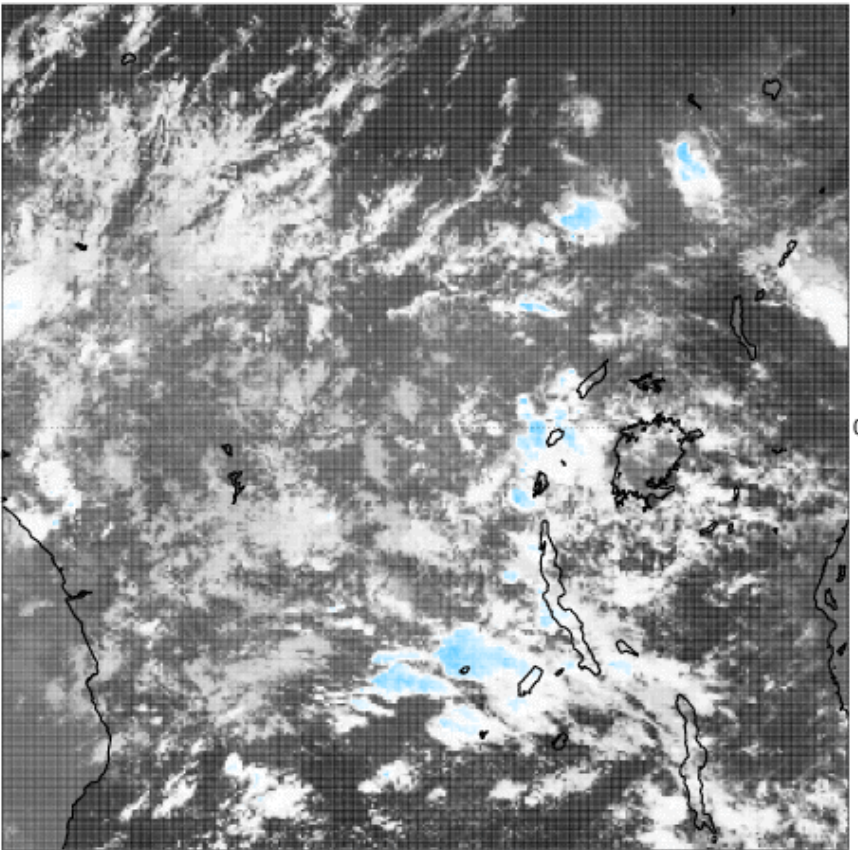
MTG-IRS Level-1 processor...difficult to test



Using ECMWF prototype super high resolution models... to simulate atmospheric radiation for MTG

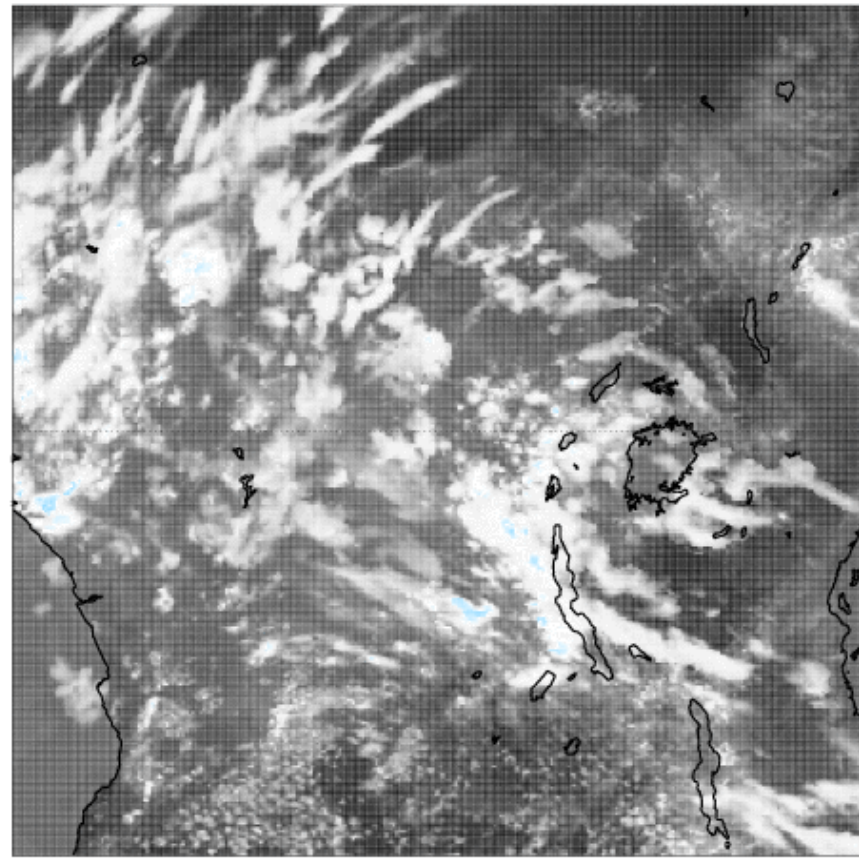
MET-11 SEVIRI Observations

Sunday 30 October 2016 1200 UTC ecmf t+0 VT: Sunday 30 October 2016 1200 UTC METEOSAT-10 IR 10-8
1 05 07 10 13 16 19 22 25 28 31 34 37 40 43 46 49 52 55 58 61 64 67 70 73 76 79 82 85 88 91 94 97 100

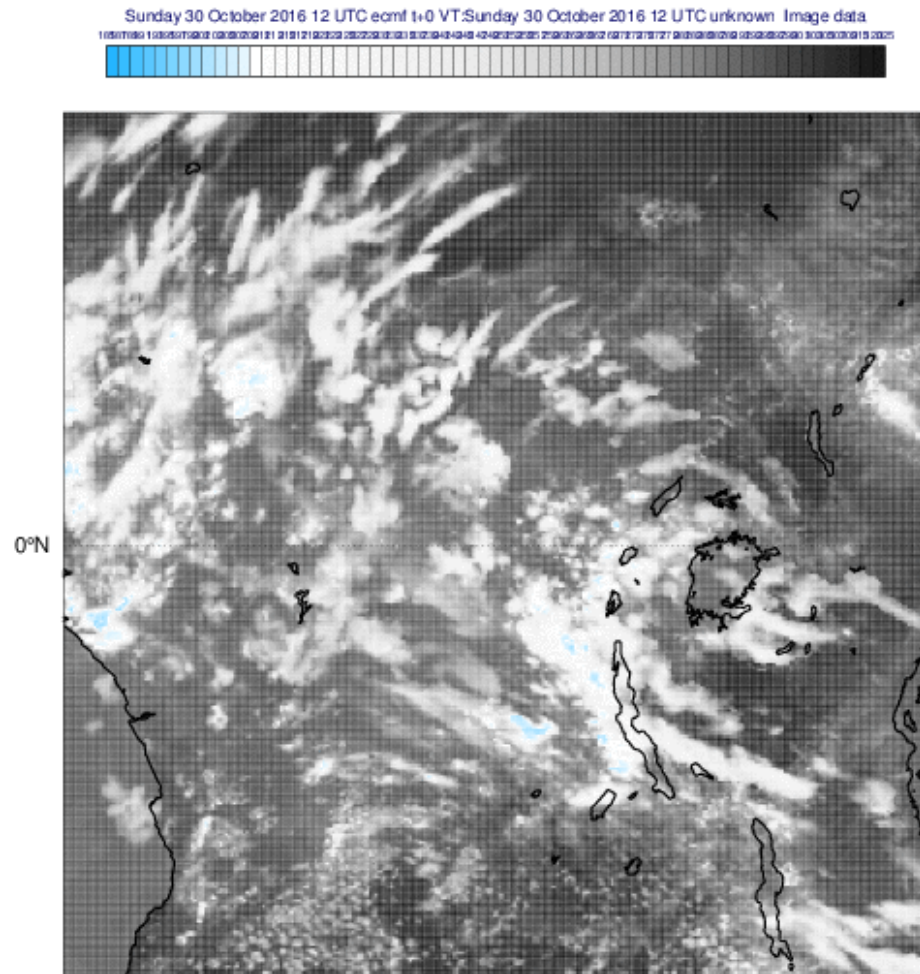


TCO3999 model (~2.5Km)

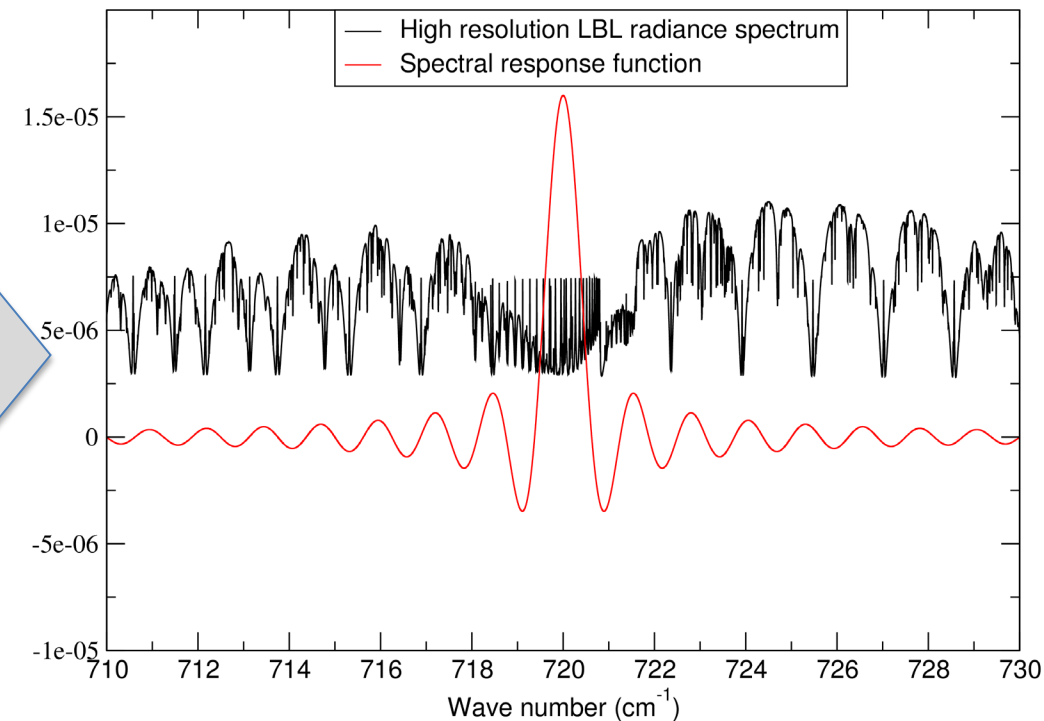
Sunday 30 October 2016 12 UTC ecmf t+0 VT: Sunday 30 October 2016 12 UTC unknown Image data
1 05 07 10 13 16 19 22 25 28 31 34 37 40 43 46 49 52 55 58 61 64 67 70 73 76 79 82 85 88 91 94 97 100



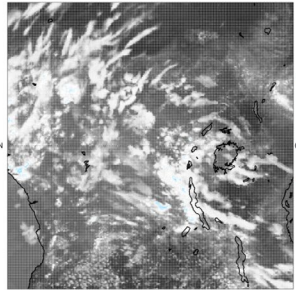
Using ECMWF prototype super high resolution models... to simulate atmospheric radiation for MTG



Pseudo
atmospheric
radiation at
1.25/2.5 Km
and **10^{-4} cm^{-1}**



MTG-IRS Level-1 processor using simulated data



Pseudo atmospheric radiation at 1.25/2.5 Km and 10^{-4} cm^{-1}

