

# VARIABILITY OF 22 YEARS OF METEOSAT FIRST GENERATION WATER VAPOR OBSERVATIONS

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## ABSTRACT

The entire set of water vapor observations from the METEOSAT First Generation service, covering the 1983-2005 period, has been processed to build a climate database of homogenized clear sky radiances, consistent with HIRS-12/NOAA-12 measurements. The interannual and intraseasonal patterns of variability of the free tropospheric humidity retrieved from this long-term database are studied. The analyses focus on scale interactions in the water vapor field, over key regions of the METEOSAT area of coverage.