

Original data	Step 1: quality control	Step 2: selecting different sampling intervals	Step 3: averaging over different time periods	Step 4: synchronisation with SEVIRI data	HATPRO data sets for comparison with SEVIRI results
December 2012– November 2014 (2 years)	Non-rainy days, SZA less than 72° , uninterrupted data flow within every specific day.	10 s <hr/> 120 s	20 min 60 min <hr/> 20 min 60 min	The same timescale was used for all data sets (15 min interval).	HAT _{10–20} HAT _{10–60} <hr/> HAT _{120–20} HAT _{120–60}